

Date Book

For

1928

CALENDAR FOR 1928

1928	S	M	T	W	T	F	S	1928	S	M	T	W	T	F	S
Jan.	1	2	3	4	5	6	7	July	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		8	9	10	11	12	13	14
	15	16	17	18	19	20	21		15	16	17	18	19	20	21
	22	23	24	25	26	27	28		22	23	24	25	26	27	28
	29	30	31	...	...	...	...		29	30	31	...	...	...	...
Feb.	...	...	...	1	2	3	4	Aug.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11		5	6	7	8	9	10	11
	12	13	14	15	16	17	18		12	13	14	15	16	17	18
	19	20	21	22	23	24	25		19	20	21	22	23	24	25
	26	27	28	29	...	...	...		26	27	28	29	30	31	..
Mar.	...	...	...	...	1	2	3	Sept.	...	...	...	...	...	...	1
	4	5	6	7	8	9	10		2	3	4	5	6	7	8
	11	12	13	14	15	16	17		9	10	11	12	13	14	15
	18	19	20	21	22	23	24		16	17	18	19	20	21	22
	25	26	27	28	29	30	31		23	24	25	26	27	28	29
									30	...	...	...	...	...	..
Apr.	1	2	3	4	5	6	7	Oct.	..	1	2	3	4	5	6
	8	9	10	11	12	13	14		7	8	9	10	11	12	13
	15	16	17	18	19	20	21		14	15	16	17	18	19	20
	22	23	24	25	26	27	28		21	22	23	24	25	26	27
	29	30	...	...	...	...	...		28	29	30	31	...	...	...
May	...	...	1	2	3	4	5	Nov	...	...	...	...	1	2	3
	6	7	8	9	10	11	12		4	5	6	7	8	9	10
	13	14	15	16	17	18	19		11	12	13	14	15	16	17
	20	21	22	23	24	25	26		18	19	20	21	22	23	24
	27	28	29	30	31	...	...		25	26	27	28	29	30	..
June	...	...	...	...	...	1	2	Dec.	...	...	...	...	...	...	1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
									30	31

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Date Book For 1928

Trade Mark
K & T
Reg. U. S. Pat. Off.

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1928

Sunday 1,

January

January Monday 2, 1928

Drove to Pasadena and back to day to see the Stanford - Pittsburgh game. Start at 8⁴⁵ A.M. - return at 11¹⁵ P.M. A part cloudy but warm day. H.K., Allen, wife and I. 66 miles in the county (count north trip only.) Nothing seen.

Coming back heard loud Hyla regilla choruses at many points. Noted San Mateo, San Onofre, Los Flores, Stuart, Seaside, Carlsbad, Del Mar, La Jolla.

1928

Tuesday 3,

January

January Wednesday 4, 1928

1928 Thursday 5, January

January

Friday 6,

1928

1928 Saturday 7, January

January

Sunday 8,

1928

1928 Monday 9, January

January Tuesday 10, 1928

1928 Wednesday 11, January

January Thursday 12, 1928

1928

Friday 13,

January

January Saturday 14, 1928



Dos Carrazas.

1928 Sunday 15, January

Returning from Chicago today via the S.D. Ry A made the following notes on the Dos Cabezas section.

From the county line (MP 112 Culvert B) to Dos Cabezas there is a long arm of desert rolling and sandy although much higher than the section around Coyote Wells. Much like the country just east of the Narrows. Plenty Ocotilla. At MP 111 we are 2 to 3 miles from the edge of the foothills which lie to the south.

At Dos Cabezas we are still in the sandy area but the true foothills are very close. In fact Dos Cabezas may be said to be on the edge.

Above Dos Cabezas we see more greasewood and then plenty rocks.

After Dos Cabezas we again get out into a narrow sand - ocotilla area. The true gorge (Carrijo) begins at MP 107+. Rocks close and on both sides. The railroad does not follow Carrijo creek to the bottom. The creek goes off to the north.

Carrijo Gorge Station (or siding) is way up the mountain at MP 101. This is nowhere near the creek.

January Monday 16, 1928

1928 Tuesday 17, January

January · Wednesday 18, 1928

1928 Thursday 19, January

January

Friday 20,

1928

1928 Saturday 21, January

January

Sunday 22, 1928

1928 Monday 23, January

January Tuesday 24, 1928

1928 Wednesday 25, January

January Thursday 26, 1928

1928

Friday 27,

January

January Saturday 28, 1928

1928

Sunday 29, January

January Monday 30, 1928

1928 Tuesday 31, January

February Wednesday 1, 1928



1928 Thursday 2, February

Feb 2 Drove to El Cajon for inspection of substations. Returned via the new Broadway (Bostonia) road over Fletcher hills and thence thru Rolando and the Chollas Road. A fine clear day as warm as summer. No snakes seen on the road alive or dead.

On Broadway n.w. of El Cajon hunted for a few moments in the rocks. Saw several Uta's and Skellies. Found one yearling gopher coiled up under an old sheet iron scrap. Was lively.

Total miles 35

February

Friday 3,

1928

1928 Saturday 4, February

Went to Charity Ball tonight. Heard
many hymns at Coronado.

February Sunday 5, 1928

1928 Monday 6, February

February Tuesday 7, 1928

Saw Alvin in S.F. today

1928 Wednesday 8, February

February Thursday 9, 1928

1928 Friday 10, February

February Saturday 11, 1928

1928

Sunday 12, February

February Monday 13, 1928

1928 Tuesday 14, February

Went to El Ceyin at noon with
Holloway. Went by way of
Broadway ext. A part cloudy cool
day. 31 miles. Nothing seen.

February Wednesday 15, 1928

1928 Thursday 16, February

February Friday 17, 1928

1928 Saturday 18, February

Spent the afternoon on my collection,
sorting and arranging.

February Sunday 19, 1928

Completed sorting and arranging my collection except several lots of juvenile amphibians

Found amongst the *Uta stansburiana* 4 specimens of what appear to be *Uta microscutata* from San Diego Co and therefore the first from the U.S. I remember having been struck with these black *Utas* when collected at Tonawanda.

1928 Monday 20, February

February Tuesday 21, 1928

1928 Wednesday 22, February

February Thursday 23, 1928

1928 Friday 24, February

February Saturday 25, 1928

1928

Sunday 26, February

February Monday 27, 1928

1928 Tuesday 28, February

Went to El Cajon Rotary today
at noon with Holloway. Broadway
extension. A fine warm day after
many such. Nothing seen alive
or dead. 34 miles.

February Wednesday 29, 1928

Went to Capistrano today at 8³⁰
 AM to meet Guillow and Grunsky.
 Route Capistrano, El Toro (Junction)
 Serra, Laguna, Oceanside, Escondido,
 Home. Arrived at 5⁴⁵.

A moderately warm part cloudy
 day. Noted *Hyla regilla* croaking at San Clemente.

One juvenile gopher DOR at
 San Luis Rey.

Total miles in county $64 + 22 +$
 $+ 32 =$

Recd today from Tom Howley

a fine large Anelides lugubros
lugubros taken in a drain pipe at
 Hamont and Diamond, Oco Pacific
 Beach.

1928

Thursday 1,

March

March

Friday 2,

1928

To La Mesa (via Univ Extension)
and return (via Bdwa Extension) with
Holloway, Guillon and Grunsky. Total
miles 24.

1 adult gaster D.O.R. Marilou
Park (city)

1928

Saturday 3,

March

March

Sunday 4,

1928

Today compared my specimens of *Uta microscutata* with those sent down by Slevin.

I can find no important differences.

My specimens all have green throat patches compared with blue in the lower Calif specimens.

There is some evidence of difference in tail lengths. but I do not consider this conclusive with so few specimens.

<u>No</u>	<u>Snout to anus</u>	<u>Anus to tail tip</u>	<u>Ratio</u>
57441	40	83	2.07
57440	45	85	1.89
57436	40	68	1.70
57442	40	76	1.90
129	44	67	1.52
25	44	60	1.36
131	42	73	1.74

1928

Monday 5,

March

March Tuesday 6, 1928

Went to El Cajon Rotary club
this noon with Holloway. A cloudy
day after several rainy days.
28 miles. Nothing seen. Went and
returned by Broadway extension.

Today I saw at the zoo a vicious
Boyle's King from Las Flores. Vibrated
the tail violently and struck the glass
of the cage. Light rings were unusually
dark. They were only about 4 scales
wide at mid dorsal line, widening to
about 5 scales at the ventrals. The
light rings were straw colored and as
each light scale was surrounded by some
dark skin the contrast usual in these
snakes was still further reduced.

1928 Wednesday 7, March

March Thursday 8, 1928

1928

Friday 9,

March

Received today a juvenile gopher
from Ed Post taken on Mission Hills. No 431
not reported in Zoo Book.

March Saturday 10, 1928

1928

Sunday 11, March

Expected to take a trip today but did not go out account Phil sick. Would not have got anything probably as it was a cold cloudy day, differing from balance of week.

March Monday 12, 1928

Went to La Jolla this evening starting at 5⁰⁰. Dark at Moreno so don't count. Saw nothing.

Recd today from C. B. Perkins 2 medium Scaphiopus hammondi taken yesterday at San Ysidro. Were dug out of fresh gopher mounds.

From Abbott the head of a C. exsul taken yesterday at Murray Dam by R. H. Goodrich and B. J. Carteri. Length 5' 1" girth 9" Rattles 16. Head too smashed to save.

Also from Abbott a C. cerastes juv. specimen taken by A. A. Beatty Mar 12 in Borego Valley 1156 E N.W. Cor Sec. 4. Probably at Beatty arch.

1928 Tuesday 13, March

Went to El Cajon Rotary Club today. A cool part cloudy day. Went by way of University extension, returned by way of Magnolia extension, Helix, Lemon Grove and Broadway extension. Saw nothing but one Uta. Miles 35.

Drezzling rain tonight.

March Wednesday 14, 1928

To received from C. B. Perkins 5 *Batrachoseps*
from Samuel Also saw a can he had
containing just transforming *Hyla regilla*
from near Sweetwater.

Recd. 3 *Batrachoseps* from C. Kilgore
caught in San Diego.

1928 Thursday 15, March

March

Friday 16,

1928

Went to Fowler's Wynola ranch
with Chickering, Fowler, Peckham, Holloway.
Started at 2 P.M.; returned at 6³⁰ P.M.

A fine clear day, dry, with north wind.
Warm at low elevations; rather cool beyond
Witch Creek. 119 miles. Went and returned
by Broadway extension. Stopped only at
Fowler's ranch where we hunted a few
moments. No lizards seen.

1 Small gopher D.O.R. Riverview

1 Medium gopher D.O.R. Mussey Grade 1/2 way up

1 Large gopher D.O.R. Near Rutherford Branch.

1928

Saturday 17,

March

March Sunday 18, 1928

Today went out to Carrizo Stage Station at the County line with Abbott. Started at 9³⁰ AM and arrived at about 4³⁰. Total distance (Univ. extension) 115.5 mi. A fine clear day. Quite warm on the desert side of the mountains.

Reached Tulean at 11³⁵ AM. 63.3 mi.

1 horned toad noted at Ballena.

1 large *Nasticophis lateralis* D.O.R. top of Santa Isabel Grade.

1 Uta A2 (S. end San Felipe Valley).

1 Uta A1 (Box Cañon)

Noted many Utas from San Felipe all the way down. One *Orcuttia* noted at Box Cañon. Crest. coll. *Baylis* at S. end La Puerta. *Callisaurus* at Vallecito. At Vallecito picked up several *H. regilla* (A4-10) and one *H. arenicolor* (A3)

At Carrizo walked around the wash in the afternoon and picked up a few *H. regilla*. Went out on the mesa and got nothing. Got a small *Sonora* occ. under a piece of cardboard near the shed. After supper took lanterns and went out in the wash. Abbott got an unusually large *Coleonyx*. Then went in the swamps and got many *H. regilla* and several *Bufo boreas halophilus*. Hylas very plentiful and noisy.

Cold tonight. Couldn't keep blankets in.

1928 Monday 19, March

Carrizo Stage station. Up at day break. Couldn't sleep anyway a/c cold. No use trying to double blankets on a cot.

Went out hunting in the mesa at 7¹⁵. Still cool but warming rapidly. Quite hot at 8³⁰. Returned to camp at 9¹⁵. Got Uta, 1 Callisaurus. Saw plenty tracks in the mesquite dunes but was there too early. Saw plenty Uta and a few Callis. Also maybe one whiptail but couldn't be sure. A11-14 Uta Carrizo; A15 Callisaurus.

Back at camp watched Uta ~~not~~ nod.

Got a fine red racer under a board at old house. Was coiled.

The wash here is about 3 mi wide. Mixed wash, plain and bad lands. Then higher hills on each side. Plenty running water.

Started back at about 11 AM. Quite hot. Saw Callis and Uta opposite Agua Caliente. Got Uta at La Puerta ~~4~~ (S. and A18-19) also a Skelly (cutti?) (A20) Saw plenty Uta along here also few Skellys and Callis. Got Uta (A16-17) at ~~La~~ San Felipe, south end. Frogs eggs just laid at Vallejo. Saw plenty Uta on Banner grade at least 1/2 way up.

1 garter DOR Foster large
" " Riverview "
Horn at 5³⁰ miles 116 (Bdry ex) [over]

March Tuesday 20, 1928

Recd today 1 Red rattlesnake large. near
foot of bridge path, Torrey Pines.

1 Pacific rattlesnake large,
J.F. Elliott, San Juan Hot Springs
(1 mi s.e.) Orange Co.

Recd on the 18th from Clyde Skell
1 Small *Phrynosoma m'calli* taken
at Carrizo.

Taking yesterday's trip as a whole I would
guess the season a little early for the desert
lizards except Uta. Although a few *Coleps*
were seen they were not plentiful. Only one
doubtful *Cnemidophorus*. 2 *Crotaphytus collaris baylei*
seen. No *Dipsosaurus*, no *Crotaphytus tessellatus*
tessellatus. Snakes in the desert were as
usual scarce. Looked hard for garters at
Carrizo. Negative

1928 Wednesday 21, March

March Thursday 22, 1928

Red today through Abbott
a large red rattler taken near so
by C.N. Ohre, Mission Valley.

1928

Friday 23,

March

Recd today a Horned Toad taken
at Front and Hawthorne by Miss
G. Morris 2082 1st St City.

March Saturday 24, 1928

A drizzly rain set in at 3 P.M.
Went out to Mission Valley bridge at
5 P.M. for toads but found nothing.

Continued from Sunday 25th Mar

This is not a particularly good place to
hunt as the creek is not still.

Wress and the gang then left and Chuck
and I went down to the bridge halfway down
the Cañon. Here we hunted. Got about 18
Hyla arenicolor; 4 *Rana aurora draytonii*
and 1 *Hyla regilla*. The *Ranas* were usually
in the water, lost a large one that was too deep.
The *H. arenicolors* were both in the grass
and on the rocks. Most of them were taken on
the rocks where on the shady sides they
were hiding in shallow crevices, cracks, dark
pools, etc. Got 4 in one shallow crack.
They flatten themselves against the granite
and watch it closely. Some times they
are in shallow depressions where there are
no cracks.

Caught a garter top of grade. For got to enter

1928 Sunday 25, March

Went to Sentenac Cañon today to meet Weiss and Ranger's troop of Boy Scouts (who had gone out Saturday afternoon and camped at foot of grade).

Went out alone; returned with Chuck Weiss. Started at 8³⁰ A.M.; returned at 6 P.M. 157 miles. Went to regular road, University extension. Returned same way. A cold windy day especially this side of San Felipe. Had rained the night before. Had to use chains on the Banner grade. Not so wet coming back, but no dry for lizards or snakes.

On the way out saw 1 Garter large D.O.R. at Goose Valley junction. Coming back 1 Juvenile Gopher D.O.R. at Riverview. Except for these two and a Skelly at foot of Banner grade no other lizards or snakes were seen enroute.

Met Weiss and the scouts at top of Sentenac about noon. Very windy. They had 1 Garter (foot of Sentenac), 1 *Uta* fine light color (1 mi. east of foot of grade) and 2 *H. arenicolor* from foot of grade.

We then proceeded to hunt at top of grade Weiss on hill, balance on Creek. He got 2 live *Oreocetes* & 1 *Uta stans* (shot). We got about a dozen *H. regilla* and 1 *H. arenicolor* in the creek. Some of the former were females. Polywogs were seen. (Continued under Saturday Mar 24)

March

Monday 26,

1928

Shipped 2 *Ranas*, 4 *Hyla aren.*, 2 *T. o.*
hammondi to Wright; 4 *H. aren.* to Drs;
1 *H. aren.* with parasites to Gwyn.
Also a red and pacific ratt. to
Mulford at SF.

Removed rattlesnake venom this
noon.

1928

Tuesday 27,

March

March Wednesday 28, 1928

1 Yearling gopher D.O.R. in the
park.

Dont miss in list No 1496 Caught
today by C. Seash. *Sonora occipitalis*, La
Puerta.

1928 Thursday 29, March

March

Friday 30,

1928

Went to Oceanside with Holloway.
Start at 10⁴⁵ return at 3³⁰. A fine
clear day, cool. Total 84 miles.
Saw nothing but slept about 20 miles.

1928 Saturday 31, March

Photographs

Senterae Red Rattles.

Helix Tremorophon

Carrijo Red Racer

Beaty's Siderianda

April

Sunday 1,

1928

Went to Tamacha (beyond the Sunset water Bridge) with Philip. Started at 8³⁰; returned at 1 p. Broadway extension both ways. A part cloudy day. Rather cool up on the hillsides - with wind.

1 Gopher (small D.O.R. Chollas #5).

No other snakes seen.

Hunted in the rocks north of the road. Got 1 *Uta stansburiana* (485) and 1 *Uta stans* (484). Got about 9 x.h. in the usual way. Saw S.D.B. and 1 young or cuttle. The x.h. were rather easy to get.

1928

Monday 2,

April

April

Tuesday 3,

1928

Recd today from F. Kelsey a small
Encrinurus croceatus (dead) taken at
 Pine Valley under a rock. Also a
B. a. leucopus from S.D.

* Gopher snake from Tacumbla April 5th. Counted
 the spots on this snake April 22nd before
 shipping to Miss Stull. He was the usual
 dark *annectens*. I see no tendency toward
desertiicola. 78 body spots + 25 tail spots.
 The same may be said of Searl's La Puerta
 specimen. (note this La Puerta specimen not
 from La Puerta but from far up Laguna Mt.
 glad I caught this)

1928 Wednesday 4, April

Received today from Clyde Seale a number of preserved specimens taken at La Puente. Also a live gopher snake from La Puente.

This is a typical dark annectens with no tendency toward deserticola.

Recd also via Loo 5 fine Encantado croceatus taken near the Pescadero store; 1 large & 1 miniature.

Started toward Jacumba with Philip at 2³⁰. A cool clear rather breezy day. Evidences of rain the day before all along to Jacumba. Arrived at 5¹⁵.

1 Small gopher D.O.R. at Chollas Hts (University extension)

1 Small gopher D.O.R. at Alpine.

Total miles 79

Quite cold tonight at Jacumba. Plenty Hyla regilla can be heard.

April Thursday 5, 1928

Went out this A.M. at 8³⁰, Returned to hotel at noon. Went to old Uta meansi stamping ground about 3 mi east of Tacumbra. Very warm and comfortable by noon.

Got 2 Uta ⁴⁸⁴⁻⁹⁰ microscutata, 3 Uta ⁴⁸⁶⁻⁸⁸ stans, 1 Phryn. blainvilliei, 1 large Gopher snake. * Did some very rotten shooting. Saw plenty lizards including Orcuttia, 2 meansi and probably 1 Whip tail. Uta microscutata are in the rocks and quite wary.

In the afternoon drove to the foot of H. S. grade. Stopped several places between Tacumbra and top of grade. Utas were quite plentiful. Got 6 (492-1) and 1 Orcuttia (491) Stomach contained yellow flowers, a worm and what appeared to be a parasitic worm.

On the way down the Mt. Sp. grade saw 2 Chucks. Hunted hard for about 1/2 hour in rocks at foot of grade. Saw U. meansi, X. henshawi, and U. stans. but got nothing. Hunted in old place on the way back, got only 1 Uta. Saw no microscutata.

In the evening noted plenty B. b. halophilus and H. regilla in almost dry swimming pool. Will catch later.

The Uta microscutata when alive has lemon yellow throat patch and brilliant blue green belly.

Miles in S.D. Co today 17. 22 outside * See Under Apr 3d

1928

Friday 6,

April

Today went to Oasis, Riverside County and back. Started at 7⁴⁵; returned at 5. Total miles 228 of which only 17 were in S.D. County.

Was rather warm in Imperial County; plenty warm for snakes and lizards.

Fig Tree John's is not on present highway being about 1 mi east.

On the way back stopped at County line (Turpentine Rock) and walked west about 2 mi probably into S.D. Co.

a half mile or more. Got 1 *Uta stans.* (498) & *Colley* (499-500) and ~ *Dipsos*. (501-2) Saw quite a few lizards including ~ whiptails. No question about identification.

Found *Dips* stomachs full of flowers and leaves.

On the way home stopped at a roadside pond bet Brawley and Imperial. Plenty water bugs, showing permanency but no polywogs.

One dead chuck on the mt. spring grade.

No snakes seen alive or dead although it seemed an ideal day in the desert.

April

Saturday 7,

1928

Started out at 7³⁰ this AM and went to usual place 2 mi east of Tacumbra. Hunted assiduously on both sides of the road until noon. Got 1 *Uta mearnsi* (532) 4 *Uta muraucata* (531, 503-5) 6 *Uta stans* (506-11) and 1 *Oreocetes* (512). Saw plenty of *Uta mearnsi* in the usual place on the rough granite rocks. Also saw 2 *X. benshami* here where results were negative last year. No doubt as to identification as they were crested moving a rock. Saw many *Oreocetes* including young. The mics are usually on top of rocks especially dark rocks. Seem to be more of a rock lizard than *Uta stans*. Don't take refuge in the ground so readily. Saw a large *Macrogophis lateralis* but lost him. A little windy in the morning otherwise a perfect snake day.

In the afternoon went west about a mile. Hunted hard in the rocks for nearly three hours. Got 1 *S. obsoletus* (513), 1 *Uta mic* (514) and 6 *Uta stans* (515-20) also 6 *X. benshami* alive.

Drove up the road to end of pairing and saw 2 yearling gophers Dot Boulevard. Total miles today 26.

Went up to the bridge tonight to look for amphibians. Nothing there but *H. regilla*. Picked up 4 toads (B.b.h.) and 2 *H.v.* in the swimming pool. Could have got many more if desired.

1928

Sunday 8,

April

Started home from Tocumba at 8³⁰
a strong cold east wind blowing. No
day for reptiles.

Turned off to Tecate and hunted in
rocks. Too much wind. Got one X.h.
then gave it up. Started back and scared
up a large *Masticophis lateralis* crossing
the road. Stopped car quickly but lost
him in the rocks.

Turned up the Cottonwood about a
mile and got some polywogs (✓ and
possibly three kinds) also ✓ small *H. regilla*.

Stopped at top of Delzera and hunted
in usual place. Strong wind still blowing.
Shot a small skelly and in so doing scared
out a medium mitchellie which I had
just passed. Must have come very close to
him. Caught him OK. Encouraged by this I
worked hard in the rocks for an hour and
a half but didn't get another thing. Strong
wind still blowing. On the way home noted
the following. 1 *M. lateralis* large D.O.R. Marlson
1 Gopher snake " "
1 Red racer large " 28+ Edway
Arrived home at 2¹⁰. Total miles 87

April

Monday 9,

1928

Recd today from L. H. Doss, Rincón.
 San Felipe Wash Pole 732 Taken Mar 23
 2 Red Racers (mating) and Pole 718
 1 Spotted night Snake. These poles are
 near foot of Pertenac Cañon - Yaqui
 Well. Spotted night also Mar 23.

Remove Venom from 20 Rattles today.
 11 fresh, 9 old.

With reference to colors of desert
 animals:

Spotted night above is distinctly lighter
 than average. lightest I have ever seen.

Uta at N.E. cor. of county very light.

Gopher from Tucumcá as dark as
 any annexens. Same for gopher from
 La Puerta.

2 Red racers above are darker than
 average. Red racers from Carrizo about
 average for red phase.

Horned toad from Tucumcá average
 coloration.

Recd tonight a *Sceloporus rugidosum*
 from Abbott.

1928 Tuesday 10, April

Spent the noon hour today fixing
cage signs at the Zoo.

April Wednesday 11, 1928

Recd today from Leet a C.C.
mormon collected at La Jolla.

Thursday April 12 Continued

1 Snake alive seen at 176.5, was at the side of the road. Wuss didn't stop very quickly and when I went back it was not to be found. From what I saw think it was a young Boyle's King. A little farther on there were two good tracks across the road. Tried them both for a few moments but got nothing.

Fallbrook - Pala Junction 180.8

Horned toad observed at Bonsall.

1 P.C. Annectens small Miramar D.O.R. 216

Everything indicates that snakes were out in force today.

1928 Thursday 12, April

Today went to Riverside and back with Wades to attend an Interchange Club meeting. Started at 6³⁰ AM; arrived at Riverside at 9³⁵. Returned at 1⁰⁵, arriving at 5¹⁵. Came back by way of Pala. A comfortably warm day with a strong wind in the afternoon.

Total miles 231; miles in S. D. Co 131.

- 1 M. lateralis large D.O.R. 4.6 Mission Valley
- 1 C. oreganus small D.O.R. 16.7 Muraimar
- 1 P. c. annectens small D.O.R. 28.2 Bernardo
- 1 C. mitchellii large D.O.R. 51.9 Fallbrook
(Rainbow)
- 1 S. g. hexalepis large D.O.R. 64.8 County line
- 1 M. f. frimatus large D.O.R. 92.9 Perris (Perris 96.4)
(Country club Riverside 116.5)

- 1 P. c. annectens small D.O.R. 118.5 Riverside

Stopped to hunt for about 15 minutes in the rocks by the roadside south of Perris. Shot 1 Uta stans. Wades saw a large red brown snake probably a red racer.

- 1 M. f. frimatus large D.O.R. 142.6 Elsinore (Town 143.6)
- 1 T. o. hammondi large D.O.R. 154.7 Temecula
- 1 do do D.O.R. 156.8 " (Town 159.8)
- 1 T. s. infimialis do Caught 161.7 " (Branch to Pala)
(County line @ 165.4) Pala at 170.0 here
- 1 P. c. annectens small D.O.R. 170.8 Pala
- 1 do large D.O.R. 173.7 "
- 1 C. exsul small D.O.R. 174.3 "

See next page left.

April

Friday 13,

1928

1928 Saturday 14, April

Started at 14⁵ miles ooo. A clear warm day, somewhat windy in town. With Allie and Philip. Went out by University Ext.
 1 Medium *Rhinocheilus* DOR at 7.4 Chollas Hts.
 1 Small gopher D.O.R. at 10.4 La Mesa.
 1 Medium *tateralis* DOR at 25.9 Foster's.
 1 Medium Gopher DOR at 33.0 Shady Dell.

Stopped and hunted in the rocks at 40.6 about 3 mi beyond Ramona. Shot 1 *Utastans* No. 540. Plenty of lice. Got 1 Med. *C. eximil*; was on the move when first seen. Got 1 large *eximil* coiled under a rock in the shade. Had a full set of rattles 13 coming to a point. Best set I have ever seen. Very unusual. As we came back to the car got a medium gopher beside the road. Observed whiptail, x.h., skelly and orcutti.

Got one small *Oreganus* crossing the road at 45.4 Sutherland. This was at 4¹⁵ P.M.

Arrived at Los Tules at 5¹⁰ miles today 71.2. Elevation 3750 Very quiet and pleasant but cold at night.

Went out in the evening and got plenty male *H. regilla* calling in a pond.

April

Sunday 15,

1928

Next morning walked up to the falls. Found a small *B. b. halophilus* under a board.

Started out toward Oak Grove at 7³⁰ AM. Miles 000. A clear warm day; little wind. Ideal for snakes.

First stop south of Oak Grove @ 12.7. Hunted in rocks; got 2 large exsels. Were sunning themselves on a south ledge about 5 ft apart. They were captured without difficulty. No fight. Encouraged by this hunted hard at this and 2 other points near Oak Grove until 11³⁰ but got no more snakes. Plenty lizards in evidence. Got *Uta*s, skellys, *X. h.* and whiptails. Plenty *Oscuttes* seen but none caught.

Got a large *lateralis* under a rock at 16.8 bet. Oak Grove and County line but squashed him when the rock slipped. County line @ 19.8. Hunt one large *X. h.* at 26.7 in Riverside Co (Aguaorda) hunched at 32.7; started on again at 1³⁰

S.D. County again at 45.4 Total miles in Riverside Co. 25.6. Saw *Uta*s and skellys in the road bet Co. line and Pala.

1 large *Gopher* D.O.R. at 48.3. Pala at 50.7. Got a horned toad at Bercin and another at Escudido. 1 large *Hammondi* large caught crossing the road about 1½ mi e of Escudido (79.5).

1928

Monday 16,

April

Recd today from Sam Mc Gurney a
 five large boa with the bluntest tail I
 have seen yet. Wt $1\frac{1}{8}$ lb. from Patretero.

→ Home at 4⁴⁵ Total miles 116.6. S.D. Co
 miles 91.

Was surprised and disappointed at lack
 of snakes on the road today. A perfect day
 at nearly the peak of the season - heavy traffic -
 yet there were no snakes from Pala in except
 1 garter. (Pala - Rincon - Valley Center - Escudido)

April Tuesday 17, 1928

Went out to El Cajon Rotary Club to make up. Started at 11³⁰ AM.; return at 3 P.M.
 Univ - El Cajon - ^{Boston} Dehesa Corner - Jamacha -
 Bdway Ext. Total miles. 46.1. A cool part
 cloudy and somewhat windy day.

1 Hammondii D.O.R. at Spring Valley L

1 Rhinoceros L DOR at Marlon Park.

Lost a horned toad at El Cajon; got one at Jamacha.

Today saw at the Zoo

1 Gopher Snake Pala Kw Stott. L.

1 Boa Garcia Mex

1928 Wednesday 18, April

Recd today from Dr. Sumner
a large koa taken $\frac{1}{2}$ way bet Paway
and Palmyra (Int. Woodson) April 8th —

April Thursday 19, 1928

(May 7 Continued)

He now proceeded to work his jaws toward the head of the mouse after which he began to swallow. Seemed to have met trouble with head and hips especially the latter. There were long waits without movement. After only the tail was showing there were continued long waits with the mouth open and no swallowing movements. The tail finally disappeared - total time since catching the mouse 29 min. We then waited to see what it would do but it was quite evident it was watching us so we caught it. Retained the mouse when we reached home.

Then proceeded to Int. Springs. Stopped part way down grade and got plenty tadpoles large and small in shallow stream barely flowing above ground. Probably are new d. r.

Hunted for a while at the foot of the grade. Got 1 Chuck in a rock crack but lost him. Got 1 *Uta* *maurisi* 63⁵/₈. Turned back at 103.8. County line again at 109.9. Total miles Imperial Co 11.9

Stopped for leaf mold and frogs but Clover Flat and Campo. Reached home at 7⁴⁰. It was dark at Indian Springs. Might have missed snakes from then on. Miles today 147.3 - 11.9 = 135.4
S. D. County

1928

Friday 20,

April

(May 7th Continued)

Snakes seen were as follows

1 Gopher Small Caught on the road at hwy
Oak Springs Branch. $4\frac{1}{2}$ w. of Boulevard.

1 Patch nose small D.O.R Boulevard 83.1

2 Red Racers 1 L 1 M DOR Tacumbla.

(Large had eaten a rat).

1 Red Racer M. Caught 2 mi e. of Tacumbla.

(ate a mouse. not on road).

1 Arizona L DOR 3.2 mi w. of Mt. Springs.

1 Rhinoceros L DOR 0.5 mi. e of Mt. Springs.

1 Red Racer L DOR 0.6 mi. e. of Mt. Springs

1 *Trimerophodon** S DOR 3.4 mi. e of Mt. Springs.

1 Lateralis S DOR. bet Blvd & Tacumbla 122.4

1 Rhinoceros L DOR Campo RR Xing.

1 Gopher S DOR Campo (1 mi w)

1 Gopher L DOR Campo (2 mi w)

1 Gopher S DOR Campo (3 mi w) 143.3

1 Patchnose S DOR Buigville 145.3

1 Ex. sue L DOR Pulzura summit 162.1

1 Gopher S DOR. Pulzura 163.1

1 Gopher L DOR Pulzura 165.4

1 Garter L DOR Tameul 171.6

S.D. 197.3 = 297.3 - 150 yesterday = 147.3 today

* Body spots 39 + tail 16

April Saturday 21, 1928

Went out today in a Co. Ford Coupe.
 With Philip. Start at 14⁴⁵; return at 5³⁰.
 A fine day with slight breeze.

Route: Broadway Ext., Spring Valley,
 Jamacha over the hill to Jamel Road,
 Lyons Valley, Barrett Dam, Cottonwood,
 Dulzura, Jamel, La mesa, Univ. Ext.
 Stopped only a few moments at Lyons Valley,
 Cottonwood and Dulzura summit.

At Lyons got 1 X.h. (Saw Skelly and
 Ocutti. Also a small horned toad.

At Barrett saw many utas and one or
 more Ocutti's.

At Cottonwood got one horned toad.

at Dulzura summit saw skellys and
 Ocutti's. Got 1 X.h. with red legs
 No live snakes seen.

1 Banded Racer DOR at Chollas Hts large

1 Mexican Gopher DOR at Spring Valley

1 large Boa DOR at Dulzura Summit

Total miles 82

1928

Sunday 22,

April

Went out today with the family and Ella. Started at 9³⁰; returned at 5¹⁵.

Itinerary. University extension, El Cajon, Dehesa, Glen Lonely, Tapatul, Descanso, Old Viejas Grade, Alpine La Mesa, Lemon Grove, Broadway extension. Total miles 92.

A clear day fine at the start but windy and overcast in the afternoon. A little too cool for the best results.

Stops. A. bet Alpine Hts and Glen Lonely. Got nothing.

B. Top of Glen Lonely grade. Got one Uta stans.

C. At old stone house near Tapatul. Stopped here for lunch. Hunted about an hour but got nothing.

D. At reservoir - Old Viejas Grade. Hunted quite a while. Got 1 Skelly.

Saw plenty skellys, oncautis and Utas at B, C. and D. Also Xh. at C. and D. Horned toads at El Cajon (caught) Bortonia (lost) Tapatul (caught) Tapatul (lost).

1? crossing the road. lost at Tapatul.

1 Young Garter caught crossing the road at Tapatul

1 Young Gopher D.O.R. Alpine.

1 Cal. King Snake D.O.R. Grossmont.

A rotten day for so near the peak of the season.

April Monday 23, 1928

Removed venom for 38 snakes this noon.

Noted that the Ramona ex sul with the full set of rattles had 12.

1928

Tuesday 24,

April

April Wednesday 25, 1928

Today examined a very
conspicuously marked *T. o. hammondi*
from Nestor taken by B. Floerssch, April 24

The head above is polished olive green.
The back is olive green with black
spots. which spots are unusually regular
and distinct. 3 series anteriorly, 4
posteriorly to center of body, then three
again. Many are almost round. There
is an additional series on the sides in
the yellow.

1928 Thursday 26, April

Boil on hip practically cured today.

April

Friday 27,

1928

Recd from Weiss today a *Rhinocheilus*
lecontei from Chula Vista. Caught
on the golf links at 5³⁰ P.M. 26th

1928 Saturday 28, April

This afternoon went to Clover Flat (Mercier's Lodge) with Cliff Johnstone and Philip. Started at 2 P.M. arrived at 5³⁰. Went out by Broadway extension, La Mesa, Jamul, Campo. Total miles 67.5. A fine clear day.

1 *Rhinodermus lecontei* L. D.O.R. 7.1 San Diego

1 *M. lateralis* Lg D.O.R. 8.9 San Diego

1 " " " 9.5 " "

1 *P. c. annexatus* M " 14.5 La Mesa

1 *M. lateralis* Lg " 30 Dulzura.

1 *C. exsul* 5 Caught on road at 39.7 Cottonwood. Maybe slightly hurt.

Hunted about one hour at top of Dulzura grade. No snakes seen. Got 2 *Oreocetes* 609, 610. Also one *X. h. lateralis* lost.

Surprised at the lack of snakes alive & dead from Cottonwood out.

Recd from Johnstone an Arizona Coral King

April

Sunday 29,

1928

In the morning the kids caught 4 small Bufo ^{Cognatus} ~~torosus~~ californicus hopping along by the creek in loose sand. Plenty bylas reg. heard the night before.

One dead garter in the creek. Another was seen but not by me so cannot count.

Hunted north east of the lodge from 8 to 11 AM with Chace, Johnstone and Weiss (part time). Worked hard. Got 1 medium patch nose in adaximostema and one medium garter in creek. Saw several whiptails which could not be shot.

Got the following.

Skellys 611-615

Xantusia h 616

Orcuttia 617

Uta stans 618-624

Got one live horned toad and 1 small skelly. This was a perfect day and proper season; And was much disappointed in both lizards and snakes. Can only attribute this to the quality of the granite boulders which were soft. Virtually no flakes or cap rocks. Tried both cañons and ridges.

1928

Monday 30,

April

Sunday April 29th Continued

Started home at 1³⁰ with Johnstone and Phil. Came home by way of Campo, Cuyamaca, Julian, Lakeside, La Mesa Broadway Ext. Arrived at 7 P.M. Perfect weather. Miles 115.

1 <i>C. exsul.</i> med	D.O.R.	79 Campo
1 <i>L. roseofusca</i> lg	D.O.R.	88.2 Buckman's
1 <i>P. blainvilli</i>	"	Julian.
1 <i>T.o. hammondi</i> lg	"	Santa Ysabel
1 <i>M. lateralis</i> lg	"	Sutherland
1 <i>M. lateralis</i> lg	"	Ramona.
1 <i>P.c. annexens</i> med	lost at Ramona	

(Was passing, another car and couldn't stop quickly)

1 *P.c. annexens* med D.O.R. Shady Dell.

1 *M.f. frunatus* lg " Santee.

Stopped at the pond south of Buckman's and got *H. regilla*, *B.c. californicus* and 1 Rana. Noted few poly wogs. The bufo hop in loose sand. Show great color changes. Set a skink free.

May

Tuesday 1,

1928

1928 Wednesday 2, May

May 3^d Continued.

Wineberg gave me a large *Testudo* *labulata* from North Africa. Says it eats vegetables - lettuce.

Wineberg showed me a collection of snakes taken at Oleta, Amador Co, Calif. including:

1 Garter snake no stripe (probably *T. o. conchis*) gave it to me.

1 Ring neck. very dark below (gave it to me)

Several *Contra tenuis* (gave me a couple)

2 Boyles Kings. (The white rings rather narrow and pure white)

1 Western Yellow Belly - small and light color.

Several gophers looked like the usual northern specimens (probably *heermanni*)

May

Thursday 3,

1928

Drove to Los Angeles this AM
with gg. Total miles 136. miles in S.D. Co
62. Started at 9 AM; arrived at 1 P.M.
A fine clear day.

1 long nose L.	D.O.R.	Old Town
1 gopher M	DOR	Pacific Beach
1 gopher L	DOR	La Jolla.
1 Cal King L	DoR	La Jolla
1 gopher S	DOR	Oceanside
1 gopher L	DOR	Serra Oran Co.
1 Red Rattles M	DOR	Whittier L.A. Co

Lectured tonight before the Herpetological
Society of California at L.A. Public library.
Used Anturmin Inst. Film.

Saw some interesting specimens which various
members had brought in.

U.S. Rogers, 717 S. Figueroa had a Dipsosaurus
taken 3 mi n. of Calabasas, unusually dark
around the head. Probably an inaccurate locality

W.B. Cannon had a yellow brown Uta
taken between Lancaster and the Ridge Route.
Gave it to me; will get exact locality data
later.

Bogert of the Trail finders told me of
a Chuckawalla taken at Honey Butte
L.A. County. Should be considered an L.A. County record
(See my 2nd)

1928

Friday 4,

May

Started home from Los Angeles today at 8¹⁰ and arrived at 12²⁰. A clear day - rather warm. 134 miles, 62 in San Diego county.

1 Gopher large D.O.R.	Whittier.
1 Gopher large Caught	Capestrano
1 Boyles King large D.O.R.	San Onofre
1 Red Race small D.O.R.	Oceanside
1 Longnose large D.O.R.	Morena
1 Red Race large D.O.R.	Morena.

Noted today a Rhincheilus that vibrated its tail.

May

Saturday 5,

1928

Spent the afternoon at the Cooper Club Meeting at the Natural History Society.

Recd a small collection of reptiles from C.B. Perkins taken at his ranch about 20 mi N.W. of Delta, Utah in Millard Co.

Also recd a collection for the Natural History Society from C.C. Searl mostly taken in Riverside Co.

Heard today in perfectly good authority of *Ensatina croceata* taken on both Palomar and Hot Springs Mts. Also Saunders Meadow, Idlevild, Riverside Co.

Note on mt. *Helix Triumphodon*
Total length 335 mm.
" to A 280 "

Sunday May 6th (Continued) Got 1 large Rana. No bull heard tonight. Snakes.

Rhinocheilus	L	DOR	7.6	Radio Sta
"	L	DOR	8.4	do.
Gopher	S	DOR	21.8	Riverview
"	S	DOR	23.0	"
Garter	L	DOR	56.0	Witch Creek
Gopher	L	DOR	59.9	Santa Ysabel
"	S	DOR	143.7	Guatay

1928

Sunday 6,

May

Started out with Storer at 9¹⁵ AM. Cloudy and cool. Went out via Broadway extension, La Mesa, El Cajon, Lakeside, Ramona, Santa Ysabel, Warners, Los Tules (got pistol) San Felipe, Sentenac Cañon Bridge, Banner, Julian, Cuyamaca, Pine Valley. Stopped at Pine Valley for the night. Part cloudy all day but pleasantly warm. Total miles for the day 150.

First stop at Lakeside lake until 10³⁰. Got *Hyla regilla* and 1 Rana. Stopped at pond beyond Ramona. Plenty young *Hyla regilla* and tadpoles at this point. Stopped at Creek west of Santa Ysabel. Got 2 Ranas here - 1 very large female.

Stopped at creek near Warners Ranch House. Got small tadpoles and large terrapins here. Miles 81.1. Lost a horned toad in San Felipe Valley.

Hunted at Sentenac Cañon Bridge. Got 3 Utas 128-130 and 1 Orcuttia 131. Storer got plenty tadpoles. Rather overcast and cloudy here. Saw several Ranas but no *Arenicolor* on the rocks as before. Stopped on Julian Cuyamaca road and looked under logs. Got nothing. Foggy here.

Reached Pine Valley at about 6³⁰. Had dinner and went across the valley. Couldn't find the place where *californicus* was caught last year. Heard *regilla* and *arenicolor*. Lamp went out. (Continued on previous page)

May


Monday 7,

1928

Started out this morning from Pine Valley at 8¹⁵. Cool and cloudy, later clear. Rain in town.

First stop at usual pond Cottonwood Bridge 3 $\frac{1}{2}$ mi. S. of Buckman. Plenty yearling californicus hopping on the sand. Storer watched one dig in, & dug one out. More today than last week. Plenty toadpoles. Also got 3 arenicolor and 1 regilla. Got 2 Uta 1705 632-3. Saw cretiss, skellys and 1 gerromatus. Satter under bark of tree. Left here at 10⁴⁵ - now sunny and warm.

Stopped east of Tacumna and had lunch - then hunted south side of road for Uta. Got 1 Stens. 634 no micrioscutata in sight.

Dr. Storer saw a medium red racer at some distance; seemed to be watching something. White footed mouse ran out of bush with snake after it. Caught it in about 10 ft. Caught by the middle and seemed to be killed by pressure of the jaws. There was no constriction, nor any pressure by the body. After holding for a few moments the snake glided^{20'} to the shade of a juniper carrying the mouse with head well up about 6" off the ground. In the brush he had his body in this shape 

(Continued page April 19)

1928

Tuesday 8,

May

Storer worked in my laboratory this afternoon.

This afternoon saw snakes collected by Pearl as follows

1 Long Nose L D. OR Ballena ^{May} April 7

1 Boa L D OR San Felipe Sentenac Cañon
Entrance gate ^{May} April 7

1 Red Racer L Caught at same location
as above. Got this one

1 Horned Toad Some N.W. of Wainers
on Oak Grove Road April 2nd

→ The color is dark red brown. The cross bands are quite distinct for the anterior half of the body. The head and first 2 rings are black. The under surface is white spotted with dark. Pink under the tail. The snake is an adult, too large to pickle.

May Wednesday 9, 1928

Stoner worked in laboratory and library all day today.

Rained much of last night. Cold cloudy and windy today.

1928 Thursday 10, May

Stores worked in the laboratory this morning.

Nursing a bad boil on the hip today.

Natural History Society Reports
J. E. Morrison Boyles King Snake
San Diego May 5th

Hemsley Gopher Snake Park.
May 10th

Data on 4 snakes taken by Huey in lower California

1	Punta Prieta	Feb 21	1928	<i>H. ochrochrychus</i>	1552
2	San Ignacio	Feb 25	"	<i>Pituophis catenifer</i>	
3	" "	Feb 27	"	<i>T. o. hammondi</i>	
4	" "	Mar 1	"	"	

May

Friday 11,

1928

1928

Saturday 12,

May

Went to a movie in afternoon but worked hard pickling specimens in the evening.

Saw at the Zoo this AM some interesting rattlers:

- 2 Real *C. tigris* from Evans at Phosmip
- 1 *C. mitchellii* of peculiar coloration from same dealer.
- 2 *C. mitchellii*? from near Duggett, without the granules but the rostral and the anterior nasal.

Cloudy most of last week.

May

Sunday 13,

1928

Went on a short trip today with Ella and Family. A fine clear day but no luck. started at 11³⁰; returned at 5³⁰.

Old Town, Hodges, San Pasqual, Clearing Grade, Ramona; returned via Lakeside Bortoni (cut off) south El Cajon road to Tamacha road thence via Lemon Grove and Broadway Extension.

Stopped for lunch about 3 mi beyond Ramona. Hunted here from 2 P.M. until 3⁴⁵ in the rocks. Got only one young *Oncutti* (710) and 1 *Verticaria*. Not a snake seen.

On the road.

1 Cal King Medium	Camp Kearney	15.3
1 Pacific Rat Small	Misamar	17.0
1 Gopher Med	San Pasqual	38.8
1 Cal Racer large	Ramona (stopping place)	52.0
1 Gopher large	Spring Valley	83.8
1 Gopher large	Chollas Mts.	89.7
1 Cal King large	City	91.5

Total miles 97.

1928

Monday 14,

May

Recd today from Pearl & Boyles King's taken yesterday; the larger at Jamul Ranch, the smaller at Otay Mesa. Also he noted a dead one on the road at Dulzura. (not entered in tabulation)

Removed venom from 5 snakes this noon.

Noted that *Molossus* has unusually long fangs for its size and gives plenty of venom. Has small scales between anterior nasal and rostral but this does not prevent contact.

No venom from 2 specimens of *C. tigris*.

1 large exzue had white venom. Had been milked before.

1 *Mitchellii* had the anterior nasal in contact with the rostral although the usual run of small scales had partly separated them. 2 others from Daggett were fully in contact.

May

Tuesday 15,

1928

1928

Wednesday 16,

May

May Thursday 17, 1928

May 20th Continued

Started from Tucumla for home at
 1 P.M. miles 14.5. Still clear and warm.
 Did not stop on the way here except
 for leaf mold. Arrived at 4³⁰ miles 97.6
 Hit a high fog at top of Bulzura grade;
 Cloudy from there in.

1 Boyle's King L DOR Campo.

1 Timoriphodon L DOR Cottonwood

(Part way up grade; saved).

1 Gopher S DOR Jamul

1 Gopher L DOR Jamacha

1 Lateralis M DOR Chollas Hts

1 Gopher L DOR San Diego

1 Gopher L DOR San Diego

1 Longhore M DOR San Diego

* All these on Broadway extension.

1928

Friday 18,

May

Reed today a medium
Mitchellii taken May 16 at Barrett
Dam. C. B. Perkins.

May

Saturday 19,

1928

Started for Tacumbla at 14⁰⁰
in the afternoon with Phil. Weather
cloudy and cool as all week.
Went out by University extension
and old Viejas grade. Arrived at
5¹⁵.

1 small long-nose D.O.R at 7.5 S.D.

1 large lateralis D.O.R at Flynn Springs

1 small red racer D.O.R at Alpine

1 large gopher D.O.R at La Posta 63.5

A few vtras seen crossing the road.

Part cloudy at Flynn Springs.

Clear and warm at Buckmans.

Stopped about 1 mi from Tacumbla
and hunted in the rocks for 3/4 hr.

Too late in the afternoon. Lost 3 x.h.

Got 1 *Amniella* under an old sack.

Saw an or cutter.

In the evening went out and got
20 B.b. *halophilus* with a flashlight.

One took refuge down a hole.

Total miles 81.0

1928

Sunday 20,

May

Today was a fine clear warm day. No wind in the morning. Started out from Tucumla at 8¹⁰ AM. Went east to usual hunting ground 3 mi east. 1 Boyles King Small D.O.R. at 2.9 (Tucumla).

Hunted on both sides of the road until about 11³⁰. Got 4 *Uta microscutata*, many *Uta stans* and 1 *Uta mearnsi*. Saw no snakes. Saw plenty whiptails, 1 X.h.; also several *Orcuttis*.

Checked the 4 *Uta microscutata* against Ridgway very soon after they were shot. Throat color of female = pale lemon yellow; belly cendre blue fading to Venice green posteriorly. First male light greenish yellow edged with orange. Belly cendre blue.

Young male throat strontian yellow; belly bremen blue. Large male with end of tail off. Throat bright Chalcedony yellow. Belly bremen blue to beryl green. No orange on this one.

Went to Mt. Sprungs and hunted about 20 minutes on the flat. Got 1 *Uta stans* and 1 *Uta mearnsi*. Saw several *Uta mearnsi*. Back at Tucumla at 12³⁰ miles to here 19.5 (Continued to May 17th)

May

Monday 21,

1928

1928

Tuesday 22,

May

Noted today a worm snake from San Diego, considerably more reddish brown above than usual.

May Wednesday 23, 1928

In color it is decidedly more like *T. lyrophanes* than *T. vandenburghi*. The body color is light gray; the spots are light brown. The head is lighter than any *T. vandenburghi* I have seen. Altogether it looks like the lower Cal. specimens from the U.S.N.M. Body spots 34, tail spots 17. The count of body spots is not very definite as many of the secondaries go clear across and others are indefinite.

Anal undivided. Scale rows 1" back of head 28; at mid body 23. Near 15 Ventrals 129. Probably M C 70 com.

The ventrals are quite white. The primaries and secondaries engage the edge of the ventrals.

Supra labials R 8 L 8 Lower 12 L 10 Preoculars R 4?, L 3 Post oculars R? L 3. Temporals can't be determined of damage. to specimen. Sub-buccal present on left; not clear on right of damage.

1928 Thursday 24. May

Photographs today of *C. tigris*.

Recd today word from Timmons at Tacumbla that the Gila Monster he sent in was from Tacumbla!

Recd today from Bogert a specimen of *Trimorphodon* taken at Red Rock Cañon, Kern County. Also he tells me & he secured there a *Salvadora* of peculiar coloration.

He also tells me he caught a *L. roseofusca* near the railroad bridge north of Victorville, and sends a photo to prove it. He saw *Cnemidophorus* and *Callisaurus* there. I have taken the latter there.

As to the above mentioned *Trimorphodon* it was found ^{Saturday} ~~Sunday~~ morning, May 12 1928 in lower end of Red Rock Cañon, dead in the road.

(Continued on May 23^d).

May

Friday 25,

1928

Recd today from Kilgore
a Ring-neck from I.D. ; also Annielles
from Pt. Goma.

1928

Saturday 26,

May

Went to "Wings". Pickled specimens.

Notes on a live Tiger Rattles. One of the two from C. H. Evans.

The cross stripes are brown formed of a multiplicity of dark dots. The light stripes between are pinkish gray lighter on the sides. The colors are darker anteriorly than posteriorly and the stripes are less distinct. The iris is yellow, the pupil vertical and very small in bright light. The head is unusually small. The color below is orange pink mottled with darker.

May

Sunday 27,

1928

Went out today with the family and Lett. Started at 10¹⁰; returned at 5⁴⁵. 143 miles.

Cloudy along the coast; fair and pleasant inland (about 10 miles).

Route: Morena, La Jolla, Camp Kearny, Bonsall, Monserate, Red Mountain, Fallbrook, Bonsall, Oceanside, La Jolla, Mission Beach.

At Bonsall saw a hawk carrying a small snake. Snake seemed limp.

Stopped only at one place: about 2 mi n. of Monserate. Had lunch here. Hunted in rocks (not extensive), along road and along creek for over an hour. Got one *Uta stans* (743) and 1 *M. lateralis* (744). latter was crawling in leaves under tree. Saw also 1 Skelly; 3 *Verticaria*; also probably a large whiptail but can't be sure.

1 Long nose Medium DOR Morena 6.0

1 Red Racer Large DOR City Farm 17.3

1 Cal. King Medium DOR Camp Kearny 24.3

1 Cal King Small DOR Poway 36.1

1 Red Racer Large DOR Fallbrook 83.3

1 Cal. Racer Medium DOR Bonsall 89.4

1 Red Racer Large DOR Carlsbad 106.

1 Cal King Medium DOR Del Mar. 120.5.

cliffs above beach.

1928

Monday 28,

May

Removed venom from 4 rattlers today prior to shipment.

Noted a Boyle's King $47\frac{1}{2}$ " long.
An unusually large female.

Noted a red racer from Garcia, Mex today; very dark - much black on the upper surface but not a true piceus.

Got a Pacific Garter today from Walker taken in ^{San Diego} Alvarado ^{Ariz} Canon

Shipped snakes this noon to Alvarado (via Mulford), Guthrie, Regis and Faull.

May

Tuesday 29,

1928

May 30th Continued.Dip on rock at 81.5 nears Yaqui well
than Narrows

County line 97.1

1	Deserticola	large	Westmoreland	122.2	DOR	Fields
1	Arizonia	small	mt. Sprung's	184.0	DOR	Sand & rocks
1	Gopher	small	Boulevard	199.0	DOR	Field Brush.
1	Garter	med.	La Barta		DOR	stream & green grass

1928 Wednesday 30, May

Went out with C. Pearl today. Started at 8⁴⁰; returned at 8³⁰. Cool and cloudy on the coast; warm and pleasant in the back country; cool in the mountains; hot and windy in the desert.

Total miles 273; miles in San Diego County 185; miles to be counted 145 as the last 40 miles were in darkness and snakes could not have been seen.

Ponte Univ. Extension, Lakeside, Julian, Santee, Borega P.O., Kane Springs, Westmoreland, Imperial, near El Centro, Jamacha, Pine Valley, Willows, La Mesa, Broadway Extension.

Hunted in sandy and rocky wash beyond the Narrows for 40 minutes after lunch. Quite hot. Nothing seen but Utae and they in the shade. Along the road from Yagui Well to Borega saw Callis and Dips perched on rocks. The Callis stand high with stiff legs. ~~Also~~ Also saw Utae and Whiptails but the latter were not perched on rocks. Took 1 Dip, several Utae and Callis. This is the only place where we hunted.

1 Gopher medium	Santee	17.8	D.O.R. grass
1 Pacific R. small	Sutherland	^{23.9} 44	D.O.R. Chaparral
1 Latialis medium	Wynola	56.0	Lost Grass
1 Gopher large	Wynola	56.7	D.O.R. Grass

See map 24

May

Thursday 31,

1928

Today recd from Gas Co truck one gopher large and one red rattler medium taken at Santa Fe Ranch. From gas Co clerk 1 Gopher large taken at Tamacha. From C. B. Perkins the head of a red racer taken in Coronado.

From G. E. Barrett, 2883 45th St (The Cactus Man) 1 Boyle's King from 10 mi N. of Vista and 1 Desert Tortoise from 40 mi N. of Yermo.

Opened up a small organza and found it to contain a large rat. Snake was 15" long; $7\frac{1}{16}$ " across head at widest part and $1\frac{1}{8}$ " circumference of neck. Looked impossible it could swallow the mouse. Snake No 745

Examined today the blackish red racer from Tamacha. The head is black on top with a white spot below and back of each eye and the usual white crescent in front. The back is black mottled and faintly striped with light. Toward the tail it is dark brown. Color below is yellow.

1928

Friday 1,

June

June

Saturday 2,

1928

Went out this afternoon with C. Pearl. Started at 1³⁰, returned at 5⁴⁵. Cloudy in town, clear and pleasant in the back country.

Univ. Extension, La Mesa, Bostonia, Puncrust, Bostonia, Hillsdale, Tamacha, Broadway Extension. 55 miles.

Hunted only at one point namely Puncrust. Hunted in rocks burned over probably last year. Reptiles except Xantusias were scarce. Got 1 Uta and 1 Skelly. 14 Xantusias alive. Lost probably an equal number. Think this indicates Xantusia through their life habits are better able to withstand fire than the others. Was surprised to note Xantusias under caps as frequently as under flakes. Sometimes flat caps. Once a flat and dirty flake.

1 Garter DOR Radio S. Medium Creek (dry).

1 Gopher DOR Radio S. Large Brush.

1 Gopher DOR Radio S. Medium Grass.

Only snakes seen were on Broadway Extension.

1928

Sunday 3,

June

Went out today with C. Seale. Started at 9 AM.; returned at 6¹⁵. Cloudy along the coast (to Poway summit) clear and comfortably cool in the back country. Route. Murphy Cañon, Escondido, Rincon, Henshaw Dam, Santa Isabel, Ramona, Lakeside, El Capin, south over hill, Spring Valley, Bdway Extn. Total miles 141.9.

First stop Rincon; hunted for about 3/4 hour in rocks along road side. Got 4 Utas, 1 Skelly, 1 Whiptail. Lost many Utas in rocks after shooting. Rincon = 54.2 mi. Stopped for lunch at 65.6 (5 mi w. of dam) Hunted here for a short time and got 1 Skelly. Saw an Onociti and several Utas, but was not a good place for lizards. Last place we hunted was in rocks west of Ballena where I saw a Skelly and 1 small X.h. Hunted here about 20 minutes but got nothing. No live

Snakes were seen today but dead snakes were OK.			
Medium	Red Rat	City	6.1
Medium	long nose	Murphy Cañon	9.1
Small	Garter	Poway	21.4
large	Western Y. Relly	Escondido	35.5
large	Boa	Valley Center	44.2
large	Pacific Rattles	5 mi w. of Henshaw	65.5
large	Gopher	Henshaw	73.3
Med	Gopher	Henshaw	69.4
large	Garter	Sutherland	74.6
large	long nose	Ramona	75.4
large	Red Racer	Forter	110.0
large	Red Racer	Lakeside	113.3
Med	Gopher	Santee	117.6
large	Red Racer	El Capin	120.3

Chaparral.	DOR
"	"
Grass & Creek	"
Fields	"
Chaparral	"
"	"
Grass	"
Trees	"
Grass & brush	"
Brush & rocks	"
"	"
Fields	"
Grass	"
Fields	"

Bufo boreas holophilus dead at Santee. Noted today that Utas at Rincon stand up with bodies well away from rocks when hot. Like Cally's

June

Monday 4,

1928

Milked 51 rattlesnakes today. long tedious job on account of many varieties and very disappointing as to quantity.

Pickled 16 rattlers tonight.

1928

Tuesday 5.

June

Went to La Jolla today on business. Started at 2 P.M.; returned at 4³⁰. A cool cloudy day. Total miles 36. Went via Rose Cañon and Hog Cañon.

1 Gopher large D.O.R. Rose Cañon Brush.

1 Pacific snail Caught " " Grass & Brush.

1 " " D.O.R. " " "

1 Boyles King large Brush Hog Cañon. D.O.R.

At Scripps Institution noted 2 *Aneides* (1 large 1 small) caught on grounds. Also 1 from La Jolla.

Noted the following in the collection of the Institution: all caught on the grounds.

Amphispiza bilineata

Geophomus scincicauda websteri

Uta stansburiana

Crotalus eximius

Crotalus oreganus

Pituophis

Sigmodon hispidus (new locality).

Tantilla coccinea (3)

hamp. get. boylii

hamp. calif. calif.

June Wednesday 6, 1928

Notes by C. Searl on a trip he
made this day. 133.8 miles.
All these DOR.

- 17.1 Patch nose. Tunnel Hill. Buckwheat either side
- 21.5 Flynn Springs. Boa Rocky Hill on left. Small
open grain field and crest on right.
- 27.7 Gopher. Alpine School House. Oaks, creek
bed and chaparral on right. Left. Oliver's
and house on right
- 30.6 Gopher. Hammony Hills. Orchards.
- 43.9. Pine Valley. Red Rattles. Brushy hillside.
- 66.5 White star Cafe. Pacific Rattles. Junction
of 2 highways Open ground with rocks
and scattered oaks.
- 105.0 Dulzuna. Gopher. Mt. side 100 ft above
creek bed.

The above not counted in
annual list.

1928

Thursday 7, June

Went to Los Angeles today with Weiss. A cool cloudy day. Miles in the county 59.1. Total miles 130. Went via Rose Cañon, Seal Beach and Norwalk.

Arizona elegans	L	La Costa	32.2	Fields	DOR
Red racer	L	La Costa	34.2	Fields	DOR
Cal King	L	Solana Beach		Fields	DOR
Cal King	L	Las Flores	48.2	Fields	DOR.
Cal King	S	Kit L. Fr S. Onofe	54.3	Fields & Brush	DOR

In the evening went to a "Specimen Night" meeting of the Herpetological Society of Calif. Took 13 pairs of specimens. Was not as interesting a meeting as it might have been because of the method of conducting. Did not have an adequate chance to see the other's specimens.

Bogert showed me a small *Trimorphodon* from an unknown source. Also said there was one in the collection of the Lincoln High School.

Hill told me his museum had recently received a *Trimorphodon* (from Temecula) and a *Phyllorhynchus* (from Palm Springs).

Saw Colburns Clarion Island Race. Saw a *Ph. platyrhynchus* from Independence. (not a new locality vide Van Benburg.)

June

Friday 8,

1928

Drove back today from Los Angeles with Weiss. A cool cloudy day inland as well as on the coast. Must have rained some the night before from Capistrano to La Jolla. Miles 130. In County 59.7. Came home via Whittier & Santa Ana.

1 Gopher L DOR. Capistrano Fields 86.5

1 Arizona L DOR " " 90.7

1 Gopher L DOR Clemente Fields + hillside
96.3. County line = 100.4, Home = 160.1

Start = 30.

Nothing seen in San Diego County.

1928

Saturday 9,

June

Did not go out today; too much work ahead. Spent part time at the Zo.

arranging specimens and the balance of the time in the basement pickling and putting away. Worked hard to 6¹⁵
Pickled 4 snakes

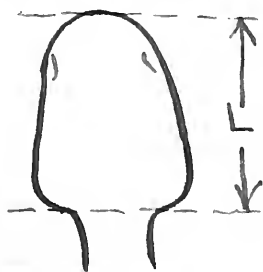
Some measurements of rattlers just after removing from alcohol while still dead soft. This primarily to establish comparative head to body proportions.

No	Species	length ^①	Head Width ^②	Head length ^③
1557 ^(?)	cerastes	554	25	27
784	mittchellii	447	34	38
785	"	796	33	36
786	"	801	33	36
787	tigris	630	18	24
788	Oreogamus	518	20	27
789	confluentus	527	19	25
824	Oreogamus (deceit)	463	17	25
825	mittchellii	443	19	25

} June 16

① length over all nose to base of rattles.
② at widest point.

③



The above (except 1557) have been entered on the individual sheets

June

Sunday 10,

1928

A cool cloudy day. Did not go out but spent entire day pickling, tagging and filing specimens.

Old specimen of *Trimorphodon* in Division of Nature Study, L.A. Public Schools. through courtesy of Chas. Bogert. No data. Badly faded.

Body spots 29 Tail spots 18 Anal divided. Small size.

A *Charina kottae* from Surtz Canyon San Bernardino Co. Harry C. James. May 19-26. 41 scale rows? (very hard to count). The boys of the camp were said to have taken at least 4 others.

For Natural History Society read
1 *Hypsiglena ochorhynchus* from Balboa Park
June 10 L. W. Arnold.

1928

Monday 11, June

Had a letter from Ed Johnson of the auto club today in which he gives interesting data on specimen localities.

C. mitchellii (784) 1/2 mi S. of Barstow

" (785) 5 mi S. of Cave Springs S.B.Co

Red weevils from 1/2 way bet Lemo and
Phelan (L.A. Co) and Cozy Bell E. of
Daggett, (S.B. Co)

Ride-winders from Hinkley, and Fenner (2)
(S.B. Co)

Chucawalla from 1/2 way bet garlic Spring
and Cave Springs S.B. Co

Recd today from Barrett via N.H.S.

1 large *P.c. rutilus* about ready to lay eggs
from Nogales, Ariz. and 1 *Crotaphytus*
olearius kuileyi from Santa Rita Mts. Ariz.

June

Tuesday 12,

1928

1928 Wednesday 13, June

June

Thursday 14,

1928

1928

Friday 15,

June

Reed today a large Boyle's King
from W. H. Frantz, employe. Caught
at Vista June 15th

June Saturday 16, 1928

Worked all afternoon and part
of the evening packing, pickling
specimens etc.

at 11 a.

1928

Sunday 17,

June

Went out to Mt. Woodson near Ramona today. Cloudy and cool in town. Clear and cool beyond El Cajon. Mild breeze.

Started at 10⁴⁰; returned at 5⁴⁰. With family, M.K.s, H.K. and Allie. El Cajon, Lakeside, Messey, Earl School, Poway cut off, Poway, Miramar, Chesterton. Went out via ~~Bdway~~ Univ. Extension. Total miles 70.

Stopped for lunch near Strong's place. Hunted before lunch with Allen for an hour and after lunch for two hours. Rocks not of good consistency. Got 3 Stellys, 1 Uta, 2 X.h. Saw also Orcuttia but not many of any lizards. No snakes. Saw one whiptail on the way down the Poway grade.

1 large Cal King. D.O.R. Miramar Open fields. Only snake seen alive or dead.

June

Monday 18,

1928

Milked snakes this noon. Total
38 mostly new. Got a fair supply.
Had the Max stolen in front of
the Zoo. Had my library catalog.
Got a Trimorphodon from Suncrest
today.

1928

Tuesday 19,

June

Got my library catalogue back to day, found by Office of the Ry Co near Marine Base.

Recd today via Ayres from J.G. Brown Santa Fe Ranch. 1 *Siagonodon humilis* and 1 *Hypsiglena ochrochrychus*.

Went to El Cajon Rotary Club this noon. Start 11³⁰; return at 2¹⁵. Part cloudy in town; clear at El Cajon. 30 miles total. Went out via Broadway Ex and Helix corner. Returned via Univ. Ex.

1 Red Racer D.O.R. Large Chollas Hts ^{low} Brush
& Grass

1 Bayles King D.O.R. large. East SD.
Grass hillside

June Wednesday 20, 1928

1928

Thursday 21,

June

Longest Day

Recd today from Pearl a large Boyle's King taken at Fallbrook and a *Pituophis tonosus* taken in Boulder Creek.

This afternoon went out with Miss Atsatt, Pearl and a party of instructors from U.C.L.A. Started at 2 P.M.; returned at 6³⁰ P.M. Univ. Ext., Bostonia, Suncrest, Lakesa, Imperial Ave. 51 miles x no snakes seen on the road.

Stopped at Studio near Grossmont and got 5 X.h. Next stop at Suncrest. Got 30 ± X.h. Also 1 med. red. rattler. Saw Skellie's and 1 *Eumeces* on a rock. This was about 5 P.M.

This evening put the rattles in a Zoo box with a large Boyle's King. Both indicated clearly a strained attitude; the rattles by almost continuously rattling and the King by a rigidity and a loop up at the end of the cage.

June

Friday 22,

1928

(Continued from next page.)

Ferns on both sides of path. Hunted around the barn. Got an alligator lizard.

After supper walked around the barn, around the meadow and also up the road. Got 1 *Hyla regilla* in the spring. No toads. Heard another *Hyla*.

1928

Saturday 23,

June

This afternoon went to Palomar with Maj. Chapman Grant, Searl and a young party named Pitmars. Part cloudy in town; clear in the back country. Rather hot bet. El Cajon and Santa Ysabel. Miles 82.6. Went via Univ. Hst., El Cajon, Messey, Ramona, Santa Ysabel, Henshaw Dam, East grade, Bailey's. Started at 145; arrived at 5 P.M. Moderate temperature at Palomar. Bailey's = 5650 elev. Practically no hunting done on the way. Stopped a few moments $\frac{1}{2}$ way up east grade but collected nothing.

1 Cal Racer L. D.O.R. Riverview. Grass-light brush.

1 Cal King snake Crossing the road at Santa Ysabel.

Open fields.

1 Yearling Pacific Rat Crossing the road $\frac{1}{2}$ way up east grade. Trees. Saw skellips here.

Also caught an alligator lizard a little further along. Crossing the road.

Arriving at Bailey's at 5⁰⁰ we walked about $\frac{1}{2}$ mile down the road toward the Iron Spring. Found a good sized Pacific Rat. Coiled like a pancake in a depression (about $\frac{1}{2}$ " deep) in the path. Waiting for prey?

(Continued Friday June 22)

June

Sunday 24,

1928

Started out this AM at 9 o'clock for Doane Valley taking along Milt. Bailey's kid Steer as guide. Went through the upper Doane Valley to edge of lower where road stopped. Returned by main road. Got back at 12. Clear and moderately warm. Total miles 6.0. ~~Small~~ Smashed running board box and damaged both running boards of c of rocks on road side.

In Doane valley the lizard business was excellent. There was much old lumber lying about and under these Utas and Skinks were plentiful. Got 5 of each alive and lost plenty. Also lost one snake of which only the tail was seen. Was under a board. Think it was either a garter or a young western yellow belly. Also lost one garter in the creek which Ditmars thought had a central dorsal stripe but this was by no means certain. Maj. Grant caught 3 *T. o. hammondi* in the creek. One *Hyla* was seen.

Skinks were plentiful on rocks and stumps. Shot 11. Also 5 Utas. Was in pines only a little way.

Started for home at 1³⁰ went via East grade, Kershaw, Rincon, Pala, Escondido, Murphy Cañon.

1928

Monday 25,

June

(Continued from June 24)

Arrived at 6 P.M. Trouble with sticking valves.

Miles 109.

Hunted for a short time on the shoulder above Lake Henshaw and got a Uta and Gally. Lost 2 Horned Toads here.

1 Gopher bred D.O.R. Amago. Grass

Also 1 Whiptail D.O.R. here.

1 Boyles King Large D.O.R. Poway grass.

June

Tuesday 26,

1928

Went out to Rotary Club at El Cajon;
out via University, left; back via Broadway
apt. 32 miles. Nothing seen.

1928

Wednesday 27, June

June

Thursday 28,

1928

Showed specimens and library
to C. H. Richardson.

1928

Friday 29,

June

(Thursday July 5 Continued)

The Hylas were in boulders along the stream bed both in the stream and on the sides. Not in crevices but rather in indentations. Sometimes 3 to a boulder. All in the shade.

The water dogs were very plentiful both in side pools and in the main stream. They were more easily caught in the former. Only 3 or 4 were on land; these were quite close to water. They hide under rocks or in the mud when disturbed.

Got 1 Juvenile rattlesnake at Cuyamaca on the road at 6¹⁵ P.M.

June Saturday 30, 1928

Drove out to Pine Valley at 4 P.M.
via Broadway Extension Arrived 5⁴⁰.
A warm pleasant day. 49 miles.
Nothing seen.

1928

Sunday 1,

July

at Pine Valley. Worked on
Library Catalog nearly all day.

July

Monday 2,

1928

This morning went to rock piles
across the bridge for about an
hour. Saw Skellies, Uta stans,
Oreuttis and Whiptail but got
nothing. 3 miles.

In the cool of the late afternoon
ran down to Kitchen Creek Bridge.
Nothing seen. 10 miles.

Worked on statistical data
much of the day.

1928

Tuesday 3,

July

This morning drove to Pescanso and back. Hunted $\frac{1}{2}$ hour east of top of new Vegas grade. Got 1 x. h and saw two others; also Orcutt and Skelly. Nothing seen on the road. 18 miles.

In the afternoon drove over to the east side of the valley. Looked along the creek for a short while. Nothing seen. Total miles 6. The old pool is dry this year.

Noted at 4³⁰ a Skelly and a Uta about the cabin. Indicates that lizards come out late in afternoon. Not uncomfortably hot at mid day.

Worked on statistical data considerably yesterday and today.

July Wednesday 4, 1928

Worked on statistical data in the morning.

At 1³⁰ P.M. went to pond on Cottonwood below Buckman's. Walked up the creek which is dry except for a few pools; then down the main river.

Many young *Hyla regilla* were seen and a few young *Hyla arenicolor*. Also 1 adult of each. Collected adults and a few young. Saw 2 *Rana aurora draytonii* but did not collect. No toads of any kind were seen (compare with last year).

Collected 1 Uta, 1 Skelly. Others were seen. Saw 2 Skinks and 2 Oreoth. 1 Skink was under a rotten log. Collected but lost him. Got him again.

Returned at 4¹⁵. No snakes seen. Total miles 18.

Lizards are certainly scarce at this time of year.

Some polywogs were seen just ready to change. Collected a few. *Hyla arenicolor*, *Uta stans* and skelly have mates.

1928 Thursday 5, July

Today went to Boulder Creek with Phil, Gutz and Reeves. Started at 10 A.M.; returned at 7 P.M. Total miles 76. Went via Cuyamaca, Cuyamaca - Pine Hills Road, Boulder, Pine Hills, Julian, Cuyamaca and return. A fine clear day not overly warm.

First stopped for a few moments at Cold Spring and got one small garter.

Next stop on west side of Middle Peak at a spring about $\frac{1}{3}$ way to Pine Hills. Hunted here quite a while but got nothing. Several lizards seen but could not be identified.

Got 1 Skelly (No 935) at junction of Pine Hills - Boulder Creek Road.

Next stop Johnson Creek. Got 4 *Triturus torosus*, 1 *Hyla arenicolor* and 1 medium garter. This point just over the hill - maybe $\frac{1}{2}$ mile from Boulder Creek. Saw a turtle but lost him.

Next stop Boulder Creek where we walked down maybe $\frac{1}{2}$ mile. Got 52 *Triturus torosus* and 52 *Hyla arenicolor*. The boys saw a Rana but I did not see to identify. Phil saw a turtle. Miles at this point 52.1

Saw several skellies but could not collect.

(Continued on June 29)

July

Friday 6,

1928

Worked up statistics this morning.

In the afternoon went to Pine Valley Creek Bridge and walked down stream from there. Walked slowly and worked carefully. Went down about $\frac{1}{2}$ mile +.

Saw four garter snakes of which we caught 2, 1 large, 1 small. lost 1 medium. The first was in weeds in midstream with head out where current was swift and he was acting as cut water.

Got 3 *Hyla arenicolor* of which 2 were deep in crack and were found when piece was broken off.

Got 1 *Rana* got two seen.

Saw several small *Hyla regilla* but did not collect any.

Saw one skelly under a dead log.

lizards very scarce although day was not hot.

Quite a few large polywogs were seen in side pools.

1928

Saturday 7,

July

Went to San Diego today;
back to Pine Valley in the evening.
Went in 7³⁰ - 9 A.M. Out 6¹⁵ -
7⁴⁵ P.M. A warm day. Nothing seen
on the road, 48 miles

July

Sunday 8,

1928

Spent the day on statistical data.
a hot day. Have a bad cold.

1928

Monday 9,

July

Have a bad cold today, ; not feeling good. Did considerable statistical work!

July 11th Continued

They take refuge under logs, in logs and in ground holes but particularly under logs. Most of the specimens we got were scared out but a few were seen both on stones and on logs. Their uniformity of size and marking makes their identification certain.

Also at this point (where we turned over many logs) got one tailless *Ensatina croceata* in the center of a rotting log amongst all the punk.

Next went to the lake where Phil got a medium garter on the shore. I turned over many logs but it was too late for lizards.

July

Tuesday 10,

1928

Went to Laguna mountain with Phil, Gutz, and Reeves. Start at 10 AM; back at 4 P.M. 34 miles. Clear day. Warm at Pine Valley cooler on the mountain.

Nothing seen on the road except a couple of Uta and Skellys about $\frac{1}{2}$ way up.

Only hunted one place namely at the Laguna at the end of the road. Here got 2 small *Hyla* regilla (spoiled), 4 Skellies*, and 2 *P. o. hammondi*. Saw several additional skellies, 2 Skinks (which were lost) and at least 8 additional garters which I were lost. Garters were in fact quite common but hard to catch whether in the grass around the lake or in a pile of rocks close by the side of the lake. Lifted many small rocks around this rock pile and nearly every one had 2 or 3 shed skins underneath. Never saw so many shed skins.

Every skelly has red lice. Small garter contained *Hyla* tadpole-frog (tail + legs) and a black worm? * *S. g. vandenburghianus*

1928 Wednesday 11, July

This morning at 9³⁰ went to Buckmans, Campo, White Eagle (New Town) and back to Pine Valley. Total distance 53. Returned at 12³⁰. A rather hot day.

Stopped at pond on the ^(8.9 mi S. of Pine Valley) Cottonwood for a few moments. Noted 2 *Ranae*, 1 *Hyla regilla*. Collected 1 *Uta*, 1 *Skelly* and 1 *Whiptail*. The *Whip* and the *Uta* have lice. The *skelly* has worms. (saved some) Got a *whiptail* at Clover flat. Saw a young *scuttie* 4 mi W. of White Eagle. No snakes seen alive or dead. *Whiptails* seem to be the only lizards abroad and active on a hot day. While they do not deliberately stay in the sun they don't seem to avoid it particularly.

This afternoon at 2³⁰ with Seale, Nation, Phil and Leers went to Laguna. Returned at 6³⁰. 35 miles. First stop about half way up. Saw one *Uta*. Next stop on south end of mountain. Got one *s.g. vanderburgianus*. Next stop about halfway bet ranger station and lake. Got a juvenile gopher, a skink (another was seen) and seven *s.g. vanderburgianus*. These are found under boards and are caught with some difficulty. (Continued on) July 9

July

Thursday 12,

1928

This afternoon went out with Philip. Started at 2³⁰; returned at 6³⁰, 63 miles. Rescanzo, Cuyamaca, Julian, Pine Hills, Cuyamaca, Pine Valley.

Hot in Pine Valley; somewhat cooler in the mountains.

Stopped a few minutes at Cold Spring but found nothing. Next stop 5 miles north of Cuyamaca on the Pine Hills - Cuyamaca road. Got me sick. In the last 2 miles of this road at about 5²⁰ P.M. a good many skellies were seen and 4 were collected.

One juvenile *C. oreganus* on the road 1 mi n. of Cold Spring. Time 5⁴⁵.

On the Pine ~~hill~~ Valley grade about 1/2 way down there was a small snake in the road which I am quite sure was *L. multicincta*. Caught a glimpse of the black and red. Stopped quickly but when we went back no trace could be found. So it cannot be counted. This was about 6¹⁰ P.M.

1928

Friday 13.

July

Went to Laguna this afternoon with Gartz, Revers and Phil. Started at 2 P.M.; returned at 5³⁰. 29 miles. A hot day in Pine Valley; cooler on the mountain. Hunted assiduously at 2 points on the mountain, turning over logs, etc. Got 1 *Sceloporus occidentalis biserialis* F, 3 skinks (lost several) and 1 male and 11 female *Sceloporus graciosus vandenburghianus* which is what we went after. They are quite common but not easy to catch. They are just seen on logs, stumps or rocks. When frightened they take refuge under logs usually but also under stones, in ground holes or even in leaves or pine needles (when run down). Two were noted to run up trees. They are very quick and active and difficult to catch unless they become entangled in the grass.

Saw a few miscellaneous lizards on the way down.

Went to Ryan's store but saw nothing 5³⁰ - 6³⁰ 15 miles.

No snakes seen today, dead or alive.

July

Saturday 14,

1928

Worked over yesterday's specimens.
 Noted a stink with lice under
 each arm and behind each leg.
 Also between toes and under a few
 scales of abdomen.

Many specimens of *S. g. vander-*
bargianus have mites.

Moony all afternoon.

Went out this evening, 7³⁰ to 8³⁰
 to the cove across the valley where
 last year *Bufo boreas halophilus*
 and particularly *B. c. californicus*
 were to be had. Nothing to
 be found this year. Heard one
H. arenicolor calling and
 caught him.

1928

Sunday 15,

July

Came in from Pine Valley today
4³⁰ - 6 P.M. A hot day. 46 miles.
Broadway extension. Nothing
seen.

July

Monday 16,

1928

Milked 15 snakes at noon.

Secured a number of specimens at the zoo and from C.B. Perkins.

1928

Tuesday 17,

July

Worked hard tonight on specimens.

July Wednesday 18, 1928

Recd today from Mrs. John
Burnham, Pt Loma a juvenile
gopher snake (dead) for identification
Also from Los Kobles a large female
Boyle's King Snake from Lemmon Grove.

Worked hard tonight on preserving
specimens and on identifications.

Record of *Masticophis flagellum*
fernatus and *Coleus constrictor*
mormon. Baldern Hills (near
Culver City) from Chas Bogert

1928 Thursday 19, July

Went to Pine Valley this P.M.

A moderate summer day - not hot. Went and returned via University Extension. Went out at 2-3³⁰; returned at 7-8³⁰. Dark after Terrinitos so count only 56 miles out of 96.

One *Rhinocheilus becontei* D.O.R. half way up new Virgás grade. L.

July

Friday 20,

1928

Put up considerable material today.
Got some Uta's from Seash. caught at
the Monument

Reed

1928

Saturday 21,

July

Went out to Pine Valley this afternoon by way of Broadway Ext. and Old Vegas Grade. Started at 2 P.M.; arrived at 3³⁰. A moderately cool day. Nothing seen. 48 miles.

In the late afternoon went with Philip to Cuyamaca - up side of North Peak. A few lizards were seen. 42 miles.

In the evening found one adult *Bufo cognatus californicus* in the path near the cottage at Pine Valley. Time 8¹⁵. Was about 2 ft from a large trail of ants. A dry path and bare.

This AM. recd various material from C.B. Perkins who leaves for Utah July 23^d

1 *Phrynosoma* ~~blo~~ *m'callii* from Holtville
 (Cal King Dulzura
 1 Bayles King Mission Valley (smaller)
 1 do San Ysidro (larger)

July

Sunday 22,

1928

This morning, a moderately cool day for this time of year, went to the top of Mountain Springs' grade. Started at 10¹⁰; returned at 1¹⁰. With Philip. 75 miles.

One *C. oreganus* large DOR at La Porta. Brush on both sides. Only snake seen alive or dead. Rattles were removed showing someone probably got out to kill.

Hunted only at one point usual place about 1/2 mi beyond Tacumbla. Saw a few lizards only *U. stansburiana* and *S. orcutti* could be identified. Got 1 young *S. orcutti*. Not too hot for lizards but they don't seem to come out at midday at this time of year.

At top of Mt. Spring's grade (Boulder Park) shot a large male Cally on a rock. Was raised up on legs in usual way. Rather a rocky place for a Cally.

Drove in this evening at 6³⁰. 20 miles in daylight. Nothing seen.

1928

Monday 23,

July

(Aug. 6th Cont) I gave many of my specimens including the *Insaturia* to Taylor. He gave me some of his frogs.

Started back at 2:15. Was hot from Warner to Ramona. At Henshaw Dam picked up a large garter crossing the road. Grass on both sides and mud from a spring. This was the only snake seen on the road today.

Stopped only at one point about one third down Mussey Grade. Hunted hard here for *Xantusia* for 3/4 hour. 2 were seen but none caught. Got a good *Orcuttia*.

Reached home at 7:15. 100 miles today.

July

Tuesday 24,

1928

Worked over library and specimens with C. E. Burt most of afternoon and evening. He showed me a red racer he had picked up DOR at Tacumbla.

Continued from July 23th

First stopped at Tameil and hunted in brush, cactus & rocks. Got 2 v. h. b. kept stop Dulyana Summit. 1 x h. seen. Very scarce even under good flakes. 1 Uta shot to pieces.

kept stop Cottonwood but got nothing.

Stopped for a few moments at several snake tracks.

In the afternoon and evening Burt worked over specimens and library.

1928 Wednesday 25, July

This morning took a trip with CE Burt and Mrs. Burt. Started at 8³⁰ AM; returned at 3 P.M. 75 miles. Moderately cool in the city; moderately warm in the back country. Bdway Ext.; Lemon Grove, Tanacha, Jamul, Dulzura, Cottonwood, Barrett, Lyons Valley, Jamul Junction and return over same route.

Following snakes seen.

- 1 Tw. Cal. King (Spots) DOR Chollas Hts (Bdway ext.) Moderate Brush 7.5
- 1 Tw. Cal King (Stripe) DOR Chollas Hts (Bdway ext.) Grass 9.6
- 1 Patch Nose Med. Indian Spring (Jamul) Moderate Brush DOR 19.6
- 1 Patch Nose Med. Indian Spring (Jamul) Moderate Brush Rocks DOR 20.4
- 1 Red Rattles L Caught off road by Burt Dulzura Summit
- 1 *Lichania roseofusca* S. DOR Dulzura Grade 33.5 Brush Rocks.

Lizards 1 Kelly at Chollas Hts; ~ *Verticaria*, Jamul
 1 Uta at Cottonwood, ~ Uta at Lyons Valley
 Burt identified a *C. wislizeni wislizeni* at Dulzura Summit!

(Continued on Page Tuesday 26th)

July

Thursday 26,

1928

Started for San Francisco
today leaving But working in
the laboratory.

1928

Friday 27,

July

This afternoon saw Kevin
for a while at CAS

July

Saturday 28,

1928

Worked all day at CAS on
rattlers. Made many notes.

1928

Sunday 29,

July

worked all day at CAS on
rattlers.

July

Monday 30,

1928

Returned to San Diego at noon today. Noted that my Boyles King had layed me eggs at least during my absence. Maybe more for the garter may have eaten some.

This evening showed my library and specimens to Dr. E. H. Taylor of the University of Kansas.

He caught an exsue at Pacific beach and likewise saw a dead *Oreganus* there.

1928

Tuesday 31,

July

Several days ago Plain told me that a large Boyle's King had eaten a smaller in one of the white boxes. Also one had laid some eggs in one of the large cages and some other of the same species had eaten them.

Today the Boyle's King in the basement laid 3 more eggs. Put 4 in damp sawdust to try to hatch. She probably laid more but the garter must have eaten them. Saw she was about to lay one but in the evening there was no egg there.

August Wednesday 1, 1928

Went to Pine Valley this afternoon at 4; arriving at 6. A moderately cool day. Via El Cajon Ave and old Viejas grade. Returned same route 7³⁰ to 9³⁰. Nothing seen alive or dead. Count 5 miles. (one way)

(Aug 5 continued from Aug 2) They are more plentiful than in Laguna and larger (unless all those taken in Laguna were juveniles) They take refuge under boards, in cracks in logs and in cracks in rocks. They seem quicker than S.o.b. which are present in the same locality. Many tiny Uta were seen.

1928 Thursday 2, August

(August 5 Continued). and put in over four hours in hard hunting. Got plenty more Rana including some very small ones. a medium *C. oregonus*, an *Escutaria* and good series of *Runeles*, *Uta stans*, *Skellies* and *graciosa*.

The rattler was on a shelf in heavy grass on the creek bluff. He rattled as we passed below. He was found to have opaque eye coverings (just changing). The *Escutaria* was found in a rotting log.

Returned to the car, had supper and then walked to Bailey's where we arrived at 7⁴⁵. Total miles to day 16. No snakes on the road.

Rana boylei mucrona is less wary than *R. a. d.* and far more easy to catch. It is usually on the banks although occasionally found in the water. Got some very small ones and saw a couple of tadpoles that may be this species. The pools are not deep and the frogs could not escape as does *R. a. d.* Occasionally they took refuge in the water but many times tried to escape on land by getting under overhangs, roots etc.

Graciosa was found especially in logs, although also on rocks and in bushes.

August Friday 3, 1928

Talked to Taylor concerning his desert trip Tuesday to Thursday. He got 4 *C. cerastes* on the desert near Plaster City, Imperial County. He hunted until nearly midnight. 2 were coiled up; 2 were crawling around. Also he got a small boa D.O.R. at Boulder Park, San Diego County. Got 3 *Arizona*s near Plaster City at night. 1 *Mitchelli* medium at Boulder Park.

Got *Rana*s at Kitchen creek and a garter at Buckman's. On the previous trip he got several garters at Kitchen creek. Count only the first one above mentioned.

Continued Jan Aug 4th —————

The latter were both in the stream and on sand, probably more in the river. Got at least 3 fine adults. These were taken about half protruding from pockets in the sand of the river bed probably just emerging. A couple of *Uta*s were also taken on the sand.

No snakes on the road today, alive or dead.

1928 Saturday 4, August

Started for Kala Camp with Dr. E. H. Taylor, Wm. Hanceford, Pearl, Weiss and 3 kids at 2 P.M. Went via Esccondido, Valley Center and Cole grade. Arrived at 6 P.M. Distance (including evening drive) 76 miles. A cool day for summer.

First stopped at Valley Center and hunted here quite a while. Got *Uta stans*, skellies, *Hyla regilla*, *Rana a.d.* and *Bufo b.f.* Saw one garter snake in the creek but lost him. Looks like a good hunting ground along the creek. The *Bufo*s were in an old well. The rocks here are poor for *Xantusia*s.

Next stopped at the San Luis Rey River crossing at the foot of Cole Grade. Collected *Bufo cognatus calif.*, both *hyla*s, *Rana a.d.* *Uta stans* and skellies. The *Bufo*s seemed to be of 2 ventages, this year and last. Most of them were found hopping along at the foot of a sand bank although a few were picked up elsewhere. The *hyla*s seemed half grown. A few tadpoles were seen.

After supper went back to the same place and collected hard with flashlights and lanterns from about 7³⁰ to 10³⁰. Got *hyla*s, young *ranas* (the smallest I have ever taken) and plenty *Bufo cognatus californicus* (cont. to Aug 30)

August

Sunday 5,

1928

Started ^{from} the camp at 6³⁰ for Doane Valley going direct by Negro Canyon grade. Moderately cool with high fog. Stopped briefly 2 or 3 times on the grade but collected nothing. On the way up saw Uta stans, skellies and a whp.

First stop at Silver Crest which is at the top of the mountain toward the west end. Had fire collecting here amongst the rocks getting many skellies, Uta stans, gacisias and 3 whiptails.

Stopped at 2 or 3 more points on the way to Doane Valley. and got more of the same. Taylor saw one snake in the grass which was lost before it could be identified.

Just at the entrance to Doane Valley broke the bottom of the gas tank and lost all the gas. Took off the tank (a long hard job) and sent it back to town with Weiss, Seash and the kids. They started just after lunch.

Taylor and Lunnford hunted while we were ~~at lunch~~ and taking off the gas tank and got the usual lizards (no whips) and a fine series of Rana boylei muscosa.

After lunch we went down to the foot of the valley and back (Continued to Aug 6)

1928

Monday 6

August

This morning at 8³⁰ we started back from Bailey's to Loane Valley.

Taylor had previously gone out at 5 AM and got 2 *Insatins* under bark, a large and a small. I went out around the barn from 6³⁰ to 7³⁰ but saw nothing.

Along the way between Bailey's and Loane we got a good collection of lizards, *Uta stans*, *Skelly*, *graciosa* and skinks. Also I saw one large banded racer in a bush but lost him. Further on Hinceford we found a fresh track in the road and then Hinceford spied a large banded racer in the brush. He was coiled about 3 ft above the ground and ten feet away from the road. Shot him.

Pavage had arrived and fixed the car by 10³⁰. We walked down the creek and got more lizards and a good series of R.b.m. I saw a Western Yellow Belly but lost him. We caught one large garter.

Had lunch by the old shack and started back at 2¹⁵ having hunted continuously from 8³⁰ to 1¹⁵. The *graciosa* were not as plentiful as in the late afternoon.

(Continued to July 23rd)

August Tuesday 7, 1928

Saw Taylor to say good bye this afternoon. He collected on Grossmont today and got about 25 *Xantusia henshawi* and a *Trimorphodon*.* The latter was under a flake. He will lend it to me. Also he will send me a *Bufo punctatus*, *S. jarrovi* and other items.

He also told me he had taken B.c.c. at Kitchen (Cottonwood Creek) and found a B.b.h. amongst the toads taken at Cole Grade Crossing Saturday night.

* Contained a *Xantusia henshawi* October 22 1928. Examined the above specimen loaned to me by Taylor &.

Scale Rows 23 Ventrals 240 anal entire
 Caudals 66 complete F. Supras 8-9
 Infrs 12-12 Preoc 3-3 Post oc. 3-3
 Ventrals 3-3 (2+1) Ventrals 3+4, 3+3
 Spots 40 + 15

Colors normal. Blotches even
 Splits not very clear.

1928 Wednesday 8, August

Milked Rattlers this noon.

August Thursday 9, 1928

1928

Friday 10,

August

Pickled snakes tonight.

Reed specimens from Bogert and Royce

August Saturday 11, 1928

Started (and completed) alphabetical map file. Checked book catalogs and eliminated duplicates while listening to Hoover's acceptance speech.

Tonight started new set of loose leaf books, expanding 3 to 9.

1928 Sunday 12, August

Spent the whole day on the collection:
mostly varnishing labels.

U.S. Grant IV called tonight.

August

Monday 13,

1928

1928 Tuesday 14, August

Went out via Market Extension and
returned via Broadway. 16 miles.
1 Red Race Large DOR at
Chollas/Hts on Broadway left. A
moderate warm summer day.

August Wednesday 15, 1928

1928 Thursday 16, August

August

Friday 17,

1928

1928 Saturday 18, August

Worked all afternoon and evening on
specimens and annual list.

August Sunday 19, 1928

Went to Coronado Islands today with Weiss, Grant, Hertlein, Searl, Phil and Ranger's troop of Boy Scouts.

landed only on South Island. landed at $11^{\circ}30'$, left at $2^{\circ}30'$. A clear cool day; some fog in the distance.

Hunted well toward the north end of the ridge and south as far as the low place. Got 2 *Uta stansburiana hesperis*, 2 Skinks, 2 *Gerrhonotus scincicauda* *wickii* and 4 Whiptails. All but the skinks had orange mites. The whips seem to feed on grasshoppers judging by stomach contents of one.

Got a number of whips and 1 large skink. Saw 2 rattlesnake skins under rocks.

The whips and alligators are in the low brush on the ridge. The skinks are under rocks. The utas are low down. The whips seem to be the most plentiful and are of good size. The last skink was large. The only 2 alligators taken were half size as a mainland *Basia*.

1928 Monday 20, August

August Tuesday 21, 1928

1928 Wednesday 22, August

August Thursday 23, 1928

1928 . Friday 24, August

August Saturday 25, 1928

1928

Sunday 26,

August

August Monday 27, 1928

Went to Los Angeles today via Long Beach with Mr. & Mrs. H. W. Eales. A clear cool day. Nothing seen. 62 miles in country.

1928 Tuesday 28, August

Returned from Los Angeles starting at 10³⁰; Arrived at 3 P.M. A clear cool day.

1 Medium *A. elegans occidentalis*
D.O.R. at Coast Royal, Orange Co.

1 *M. lateralis* large D.O.R. at
Hoy Canyon.

62 miles inside county

August Wednesday 29, 1928

1928 Thursday 30, August

August

Friday 31,

1928

1928 Saturday 1, September

September Sunday 2, 1928

1928 Monday 3, September

September Tuesday 4, 1928

Milked snakes today.

1928 Wednesday 5, September

September Thursday 6, 1928

1928 Friday 7, September

(Continued from Sept 10)

His collection is now small only
4 or 5 *organs* a *mitchellii* and a *sidewinder*.
Returned at 3 P.M. 22 miles in S.D. Co
in daylight. Nothing seen. Ollie E. came
down with us.

September Saturday 8, 1928

Drove to Los Angeles today with the family starting at 11 AM; arrived at 3 P.M. Went via Long Beach. Fairly cool along the coast; hot inland. 62 miles inside county. 1 Cal King D.O.R. at Stewart Lake. This was the only snake seen.

Met Hill at the L.A. Museum and worked from 4 to 5 mostly identifying specimens for him. Saw some interesting material and borrowed from him 2 scutellatus for further study. He has a good series of lepidids and triseriatus that should be studied later.

1928 Sunday 9, September

Spent 3³⁰ - 5³⁰ with Hill at the L.A. Museum.

Checked over 2 *Arizona atrax* and about 6 *california oreganus*.

Found definite verifications of *C. cerastes* and *S. humilis* in Los Angeles County.*

Noted the following specimens:

Tremorhodon vanderburghi No 133

J. Hornung, Temecula, 4-6-28. Usual dark brown; anal undivided, dorsal spots 37; tail spots 16, incomplete.

Phyllorhynchus decurtatus No 491

J. Hornung, Palm Springs 4-16-28.

There is much in this collection that would be interesting to check over although it has been rather poorly kept and is now badly arranged. There is considerable unidentified material and also much without labels.

* L.A. Museum # 366 Chatsworth Park 3/26/46

LA Museum # 239 Antelope Valley

both checked on.

September Monday 10, 1928

This morning went over to see Weinburg at 120 N. Gates St, L.A.

He had an interesting lot of stuff but the locality records are not kept so that it loses value. However he gave me a young scutellatus and a large phyllorhynchus both definitely from Inyo Kern (Kern Co) and loaned me several sidewinders for milking from the same place.

I saw a very dark red racer from somewhere in Calif and likewise a King snake Lg b with light rings as narrow as any eastern chain snake.

He had several oregans (one unusually black) a large scutellatus and a peculiar Oregans about half way between the great basin and the California Type. But as he didn't know where any of these were from they are useless as specimens.

learned that Australian blue tailed skinks will eat snails, chudawallus will eat watermelons, sidewinders, lizards, oregans dead gophers when they won't touch rats.

Went out to see Rowe at San Fernando. He gave me a very interesting account of having been bitten seriously by an oregans 5 weeks ago.
(Continued on Sept 7)

1928 Tuesday 11, September

Reed V.C. specimens today (27)

Noted at the Zoo a Boa from
Tujunga Cañon, L.A. Co which was
orange where they are usually
brown.

September Wednesday 12, 1928

Milked snakes this noon.

Started from S.D. with Weiss at 3³⁰

A medium cool day. Went to Fox Angeles via Rose Canyon and Long Beach. Miles in County 58. One dead snake on the road at San Onofre. Travelling too fast to stop (next evening it was gone).

Visited Tex Schulbach's snake show at Long Beach. He has a good collection of atrox mostly from Arizona. He is a little indefinite as to localities but knows that he has had them from Bakersfield Mesa and Coleridge Ariz. Noted that the supraocular dashes were missing on most yet one Texas specimen has strong dashes. He has 2 good specimens of scutulatus from Globe Ariz.

He has a fine albino gopher from Torrance, Calif. about 3 ft long. Says there was another smaller one which got away. The parietals are, as usual in albinos, distorted. The eyes are pink. The normal yellow is light yellow. The black brown or red is white.

1928 Thursday 13, September

Spent an hour in the L.A. museum this afternoon. Checked up *Phyllorhynchus* and a couple of lizards.

Returned the siderurides to Weiskopf this A.M. Gave him a turtle and a red rattlesnake. Saw Schulbach again this evening. He had just unpacked one shipment from Randolph, Ariz and another from Florence Ariz.

Saw a large *scutulatus* from Randolph (2+3) Usual contrasting tail. The largest *scutulatus* I have ever seen. Color green brown. Truncated diamonds. There were in this shipment 6 *atrox* from M to L. and 2 *scutulatus* 1 L 1 S. He gave me the latter. No doubt as to locality; was on the box.

Altogether he had 5 *scutulatus* all were 2 scales but supraoculars.

The other shipment from Florence, Ariz contained 1 *scutulatus* is about 12 *atrox*. Absolutely no difficulty in distinguishing nothing seen on the way home in the dark. Arrived at 10 P.M.

September Friday 14, 1928

1928 Saturday 15, September

Worked all afternoon checking U. C.
Crotalus specimens.

September Sunday 16, 1928

Worked all day checking U. C. crotalus specimens and pickling 11 snakes.

The King snake eggs I put up some weeks ago were examined today and found shriveled and dead.

Put a small scutellatus in the warm (not hot) sun in a glass jar. Got very violent. Rattled continuously. Breathed with great rapidity. Struck at everything.

I note that whenever a snake is skinned prematurely some of the scales even in normally dark areas lack pigment and are nearly white. This may account for some light colored specimens in collections. Also for the queer light spots.

1928 Monday 17, September

September Tuesday 18, 1928

1 Small Pituophis from Nat. Hist
Museum. Descanso.

1928 Wednesday 19, September

September Thursday 20, 1928

1928 Friday 21, September

September Saturday 22, 1928

1928 Sunday 23, September

September Monday 24, 1928

1928 Tuesday 25, September

Went to Oceanside today with Peckham and Stearns. Started at 9¹⁵; returned at 3 P.M. Went via Rose Canyon; returned via Hog Cañon. Dribbled back to Encinitas. Total miles 107

1 Gopher Juv DOR Encinitas
1 Arizona barge DOR Solana Beach.

September Wednesday 26, 1928

1928 Thursday 27, September

September Friday 28, 1928

1928 Saturday 29, September

September Sunday 30, 1928

1928

Monday 1,

October

October Tuesday 2, 1928

Milked a few rattlers today

1928 Wednesday 3, October

Reed a small koa from Julius
Wery, caught on San Miguel.

October Thursday 4, 1928

1928

Friday 5,

October

Went to Agua Caliente. 15 miles
in the country. Nothing seen.

Reed 60 specimens from U.S. N.M.
today.

October Saturday 6, 1928

Went to Yuma today with L. B. Jones, Alfred Fisher and Abbott. Started at 2³⁰ P.M. Arrived at 10¹⁰ P.M. A moderately warm day. About 90 in the Valley.

No stops were made in the county and no snakes were seen alive or dead, Went out via Broadway extension and old Vegas grade. Miles in county 90. Total miles 190.

Stopped for 15 minutes at Coyote Wells at 5¹⁰. Got one Utter stans. Jones got a Red Racer by the tail but lost him when he twisted the end off. Never saw this done before. I saw him once. Was the yellow brown phase.

Got to El Centro at 6³⁰. Dined at Barbara Worth.

Got a small gopher D.O.R. 7 mi e. of El Centro (Call it Holtville). Good enough to save as a specimen.

Got a large sidewinder crossing the road at 6 mi beyond Holtville. We must have run over him as he was dead next morning.

One small sidewinder D.O.R. 8 mi beyond Holtville. Hunted several places in the desert with flash lights but had no luck.

1928 Sunday 7, October

Started back this A.M. at about 9³⁰.

Was warmer today. At El Centro they said it was warmest day in two weeks.

1 Small Patch nose D.O.R at 7 mi. w. of Yuma.

Saved him.

Hunted for about 2 hours in the sand hills at a point 17 mi. w. of Yuma. Good luck here.

Got 24 *Uma notata*, 3 *Uta* *graciosa* and 2 *Dips*. Also 1 small sidewinder.

The *Umas* are quite plentiful but difficult to shoot. They don't stop on the edge of a bush like *Callis*, but run into it or behind it and then hide in the sand or go down a hole. They are very fast. The *Utas* are on bushes as usual. The sidewinder was in the shade of a bush.

A very light colored Patch nose D.O.R at 22 mi. w. of Yuma.

Hunted for a short time 31 mi. w. of Yuma. Got 1 *Uta* *graciosa* (1570) and a leopard lizard.

Remained at El Centro until 2³⁰

Hunted 15 mi. west of El Centro bet. Divisadero and Plaster City. Got 4 *Callis*.

Saw *Uta stans* and Whiptail.

Found Red Rattles D.O.R. 5.5 mi. east of Mt. Spruce Col. line.

Home at 7³⁰. Miles today 188. Count 31 miles in County while hunting. Nothing seen.

October

Monday 8,

1928

Fleming told me today of
a black rattler (*Crotalus*) seen 3 mi
due east of Hot Springs Mt. No question
as to identification

1928

Tuesday 9,

October

October Wednesday 10, 1928

1928 Thursday 11, October

October

Friday 12,

1928

1928 Saturday 13, October

October Sunday 14, 1928

Worked all day today and
most of yesterday. Cleared up
most miscellaneous specimens.
except National Museum Specimens

1928 Monday 15, October

October Tuesday 16, 1928

1928 Wednesday 17, October

October Thursday 18, 1928

1928

Friday 19,

October

October Saturday 20, 1928

1928

Sunday 21,

October

October Monday 22, 1928

Went to La Jolla this morning.
30 miles. Nothing seen.

1928 Tuesday 23, October

October Wednesday 24, 1928

Drove to L.A. today via Rose Cañon with Jacobsen. A clear warm day. Nothing seen. 60 miles in country. Also went to La Jolla in the morning. 30 miles.

Visited Tex Schulbach's place at Long Beach in the evening for about 40 minutes.

He had several items of interest. A King snake of the gularis group said to have been taken near Flagstaff, Ariz. looked like an Eastern King.

Also a Tiger Rattler said to have been taken at or near "Petrified Forest" Calif., evidently some place out on the Mojave. Seemed lighter than Arizona specimens and possibly with a larger head.

He gave me a young Oreganus from Florence, Ariz.

Checked his scutulatus (9) and atrox (3-4) and made notes thereon for my study.

1928 Thursday 25, October

Returned from L.A. today with Jacobsen and D'Oyly. in the afternoon. 64 miles in the country. Nothing seen.

October	Friday 26,	1928
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1928 Saturday 27, October

October Sunday 28, 1928

1928 Monday 29, October

October Tuesday 30, 1928

1928 Wednesday 31, October

November Thursday 1, 1928

1928 Friday 2, November

Came in this morning from
Munnewauna Ranch 33 miles. Nothing
seen.

November Saturday 3, 1928

Drove to Los Angeles with family. Start 646. a clear day. 59 miles in county. nothing seen.

Returned after dark.

1928 Sunday 4, November

November Monday 5, 1928

1928

Tuesday 6, November

November Wednesday 7, 1928

1928 Thursday 8, November

November Friday 9, 1928

1928 Saturday 10, November

November Sunday 11, 1928

1928 Monday 12, November

November Tuesday 13, 1928

1928 Wednesday 14, November

Rained quite hard this A.M. The first real rain of the season. Went out with Phil in the evening along El Ceyin Boulevard. Rain had ceased. Quite cold. Caught 7 B. b. h. all large. Both males and females. *Hyla regilla* was heard

November Thursday 15, 1928

1928 Friday 16, November

November Saturday 17, 1928

1928 Sunday 18, November

November Monday 19, 1928

1928 Tuesday 20, November

Started for S.F. this A.M. 57 miles
in the county. A fine fall day.
Nothing seen. Got as far as
Modesto 467 miles.

November Wednesday 21, 1928

Went on to S.F. arriving at
noon.
Worked at the academy all
afternoon.

1928 Thursday 22, November

Went to the Academy for a short
time this P.M.

November Friday 23, 1928

Worked at the Academy for
a short time this P.M. and in
the evening until nearly midnight

1928 Saturday 24, November

Worked at U.C. for about 3 hrs
this AM.

November Sunday 25, 1928

Worked at U.C. all day today.

1928 Monday 26, November

Started for S.D. this A.M.; got as far as Santa Barbara.

One live snake seen on the road near Morgan Hill. Probably a garter. Did not stop.

November Tuesday 27, 1928

Reached S.D. at 5 P.M. today. 57
miles in the country. Nothing seen.
a cool cloudy afternoon
Via Rose Canyon. Reached S.D.
at 5 P.M.

1928 Wednesday 28, November

November Thursday 29, 1928

1928 Friday 30, November

December Saturday 1, 1928

1928 Sunday 2, December

December Monday 3, 1928

1928 Tuesday 4, December

This morning at 7³⁰ started for Riverside arriving at 10⁴⁰. Returned 1³⁰ to 4³⁰. Miles in country 140.

It had rained for two nights and one day before although today was clear. There must have been many toads out last night as many had been run over the night before notwithstanding presumably light traffic. Could have got many locality records if I had stopped on the way up but business prevented. On the way back few bodies were left and these were so dry as to make identification difficult.

Checked one spade foot at County line. Rainbow.

One Juvenile Gopher DOR at
" , Rosedale. Fresh.

December Wednesday 5, 1928

1928 Thursday 6, December

December Friday 7, 1928

1928 Saturday 8, December

December Sunday 9, 1928

1928 Monday 10, December

December Tuesday 11, 1928

1928 Wednesday 12, December

December Thursday 13, 1928

1928 Friday 14, December

December Saturday 15, 1928

1928 Sunday 16, December

December Monday 17, 1928

1928 Tuesday 18, December

December Wednesday 19, 1928

Drove to Los Angeles today to
buy a car. Drove back in the dark.
a clear day. Nothing seen.
59 miles in the county.

1928 Thursday 20, December

December Friday 21, 1928

1928 Saturday 22, December

Shortest Day

December Sunday 23, 1928

1928 Monday 24, December

December Tuesday 25, 1928

1928 Wednesday 26, December

December Thursday 27, 1928

1928 Friday 28, December

December Saturday 29, 1928

1928 Sunday 30, December

December Monday 31, 1928

Memoranda

Memoranda

Memoranda

Memoranda

Memoranda

JANUARY—CASH

REC'D

PAID

FEBRUARY—CASH

REC'D

PAID

MARCH--CASH

REC'D

PAID

APRIL—CASH

REC'D

PAID

MAY--CASH

REC'D

PAID

JUNE—CASH

REC'D

PAID

JULY—CASH

REC'D

PAID

AUGUST—CASH

REC'D

PAID

SEPTEMBER—CASH

REC'D

PAID

OCTOBER—CASH

REC'D

PAID

NOVEMBER—CASH

REC'D

PAID

Mulford a/c
Just 50⁰⁰—

50 —

Oct 1 Evans 3 Tigers 12 —

Oct 27 Barnard 1 Oreganus 2 —

April 3 Pistol & shells etc
for Walker 10 —

June 22 Ed Boyd 1 Scutellatus 2 —

" F. Van Cleveland 1 Sedemide.
1 Mitchellii 2.50

28 50

21 50

Oct 9 24 Recd from Mulford

50 —

71 50

Sept 20 Paid bank for 24
snakes

63 62

Bal due Mulford
as of Oct 12th 29

788

DECEMBER—CASH

REC'D

PAID

SUMMARY--CASH

REC'D

PAID

Cash on hand Jan. 1st

January

February

March

April

May

June

July

August

September

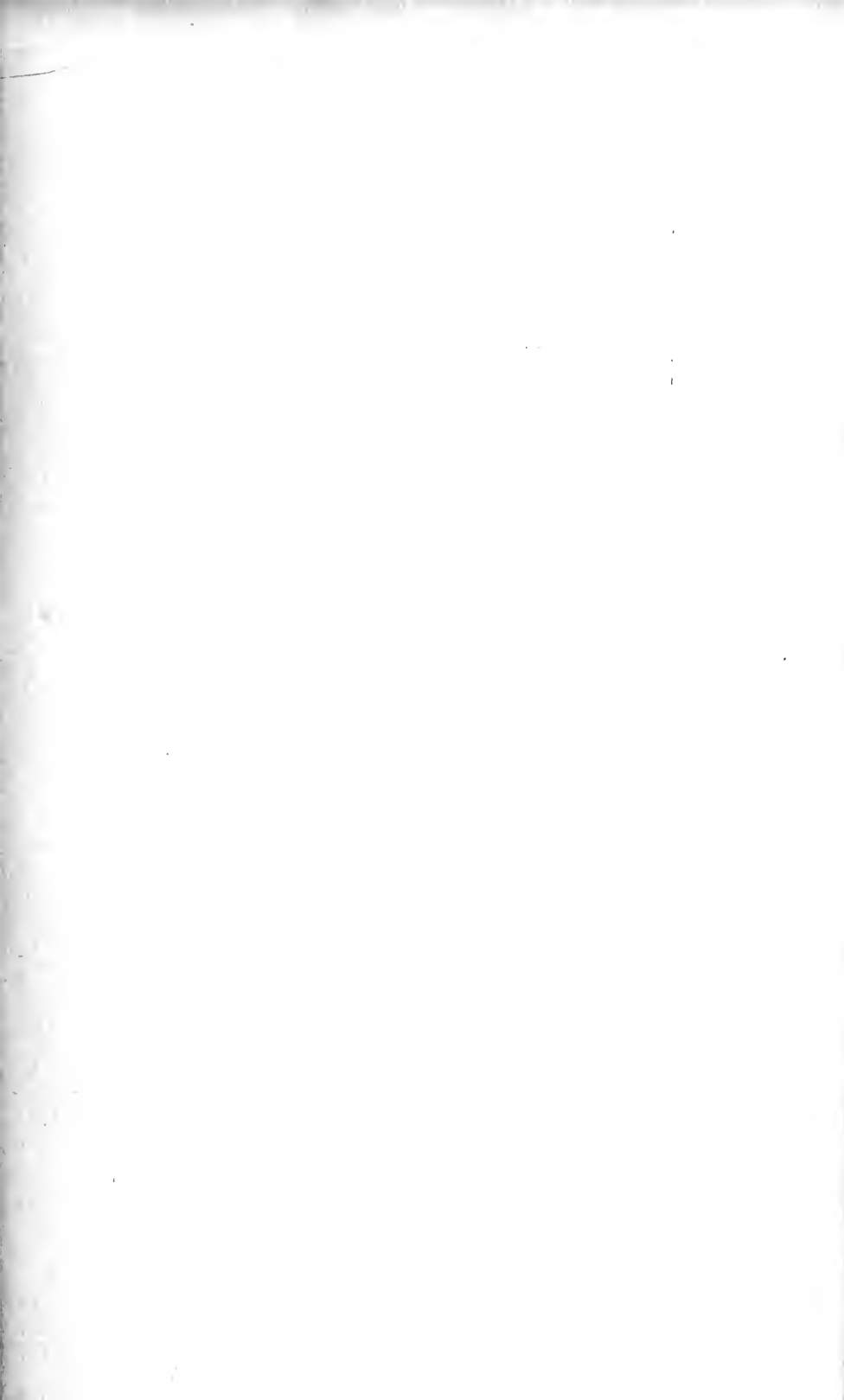
October

November

December

Total

Balance to new Acc't



POSTAGE

CLASSIFICATION	DOMESTIC	FOREIGN
Letters, First Class Matter.....	2c. per oz. ^{oo}	o
Post Cards (Private)	2c. each	o
Postal Cards (Government).....	1c. each	o
Newspapers, Magazines, Periodicals.....	2c. for each 2 ozs.*	o
Circulars and miscellaneous printed matter, also mdse.	1½c. for each 2 ozs.†	o
Merchandise, catalogs, etc., over 8 ozs....	Zone rates apply	o

REGISTRY FEE. In addition to postage, Foreign 10c. Domestic first-class and sealed fourth-class mail prepaid with first-class postage, indemnified for \$50.00 or less, fee 15c.; \$100.00 or less, 20c. Return receipt 3c. extra.

^{oo} Drop letters, 1c. per oz.

†The rate on printed books or catalogs having 24 or more pages, seeds, bulbs, etc., weighing 8 ozs. or less, is 1c. for each 2 ozs. or fraction thereof.

*Limit of weight, 8 ozs. Over 8 ozs. subject to 4th class rates.

oFor foreign rates and conditions, inquire at Post Office.

DOMESTIC: SPECIAL DELIVERY.—A special delivery stamp or ten cents' worth of ordinary stamps and the words "Special Delivery" marked on the envelope or wrapper, in addition to the regular postage, secures the special delivery of any piece of mail matter weighing not more than 21 lbs., including parcel post packages, within one mile of any U. S. post office. On mail matter weighing more than 21 lbs., but not more than 101 lbs., 15c.; over 101 lbs., 20c.

RE FORWARDING.—First-class matter (Letters, postal cards, etc.) will be forwarded without extra postage. Other matter requires a new prepayment of postage.

Mail matter for Hawaii, Porto Rico, the Philippines, The Island of Guam and Tutuila, the "Canal Zone," and the Virgin Islands of U. S., is subject to domestic rates and conditions.

DOMESTIC PARCEL POST.—Merchandise may be sent by domestic parcel post, the rates depending on weight and distance, concerning which inquire at Post Office.

REQUIREMENTS.—Sender's name and address must appear on package—otherwise unmailable; parcels over four ounces must be mailed at post office or places designated—not in street boxes; contents easily examined; limit of size, 84 inches in length and girth combined.

SPECIAL HANDLING.—25c. postage affixed to a parcel, in addition to the regular postage charges, with the words "Special Handling" written or printed on the wrapper, secures the same expeditious handling of a fourth-class article as accorded first-class mail.

C. O. D.—Goods may be sent C. O. D. by parcel post. On amounts not exceeding \$10.00, the fee is 12c.; not exceeding \$50—15c.; \$100.00—25c., collected and returned to the sender. Fee also insures the parcel.

POSTAL SAVINGS.—Money may be deposited to individual accounts at offices which have been designated as Postal Savings Offices, and interest is paid at the rate of 2 per cent. per annum on deposits.

DOMESTIC MONEY-ORDER FEES.—For orders from \$0.01 to \$2.50, 5 c.; \$2.51 to \$5.00, 7c.; \$5.01 to \$10.00, 10c.; \$10.01 to \$20.00, 12c.; \$20.01 to \$40.00, 15c.; \$40.01 to \$60.00, 18c.; \$60.01 to \$80.00, 20c.; and \$80.01 to \$100.00, 22c.

Subject to change after going to press.

CALENDAR FOR 1929

1929	S	M	T	W	T	F	S	1929	S	M	T	W	T	F	S
Jan.			1	2	3	4	5	July	..	1	2	3	4	5	6
	6	7	8	9	10	11	12		7	8	9	10	11	12	13
	13	14	15	16	17	18	19		14	15	16	17	18	19	20
	20	21	22	23	24	25	26		21	22	23	24	25	26	27
	27	28	29	30	31	..	..		28	29	30	31	..	..	..
Feb.	..	..	..	..	..	1	2	Aug.	..	..	..	..	1	2	3
	3	4	5	6	7	8	9		4	5	6	7	8	9	10
	10	11	12	13	14	15	16		11	12	13	14	15	16	17
	17	18	19	20	21	22	23		18	19	20	21	22	23	24
	24	25	26	27	28	..	..		25	26	27	28	29	30	31
Mar.	..	..	..	..	..	1	2	Sept.	1	2	3	4	5	6	7
	3	4	5	6	7	8	9		8	9	10	11	12	13	14
	10	11	12	13	14	15	16		15	16	17	18	19	20	21
	17	18	19	20	21	22	23		22	23	24	25	26	27	28
	24	25	26	27	28	29	30		29	30	..	..	..	..	..
	31	..	..	..	..	..	..		
Apr.	..	1	2	3	4	5	6	Oct.	..	..	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30	..	..	..	..		27	28	29	30	31	..	..
May	..	..	..	1	2	3	4	Nov.	..	..	..	..	1	2	
	5	6	7	8	9	10	11		3	4	5	6	7	8	9
	12	13	14	15	16	17	18		10	11	12	13	14	15	16
	19	20	21	22	23	24	25		17	18	19	20	21	22	23
	26	27	28	29	30	31	..		24	25	26	27	28	29	30
June	..	..	..	..	..	1		Dec.	1	2	3	4	5	6	7
	2	3	4	5	6	7	8		8	9	10	11	12	13	14
	9	10	11	12	13	14	15		15	16	17	18	19	20	21
	16	17	18	19	20	21	22		22	23	24	25	26	27	28
	23	24	25	26	27	28	29		29	30	31	..	..	..	..
	30	..	..	..	..	..	..		

